

We produce extrusion profiles from TPE, PVC and rubber raw materials in the main category of plastic and rubber.

We provide sealing element solutions for the automotive industry, construction industry, household appliances, agricultural machinery, energy, tractor cab manufacturers, commercial vehicle cooling systems and industrial applications.

Our goal is always to achieve better results by improving our products and services and adding value through a fast, dynamic and flexible service approach.

Production Program

- PVC/TPE edge protection profiles with Pom carrier
- PVC edge protection profiles with metal supportsr
- > PVC edge protection sealing profiles with glued EPDM foam rubber profile
- > EPDM edge protection sealing profiles
- > TPE/PVC plastic profiles
- > Assemblies / foam rubber ring / injection molding

AŞKAR PROFİL Kauçuk Sanayi ve Ticaret LTD. ŞTİ.

Our Adress : Merkez Mah. Şifalı Su OSB Cad. Poliprofil Blok No. 10

Telefon : +902163787671

CEP 1 : +905387043503

CEP 2 : +905335830249

WhatsApp : +905335830249

E-MAİL : s.askar@askarprofil.com

info@askarprofil.com

WEB: www.askarprofil.com

OUR CERTIFICATES

Certificates stating that we meet international standards









OUR PRODUCT MATERIALS

We use 3 different materials inside our products and 2 different materials outside of our products.

Thermoplastic Elastomers (TPE)

Elastic like rubber, yet not rubber!

Elastic supple and flexible these are the properties typical for rubber, a material known by everybody and part of everyday life in many forms.

Rubber is made from caoutchouc, a natural or synthetic product. Caoutchouc is a viscous plastic material, which is transformed into elastic rubber only by adding polymerizing substances such as sulphur or peroxide and subsequent heating. During this "vulcanization" the thread-like caoutchouc molecules polymerize due to the build-up of chemical bonds between each other. This polymerization is the reason for the product's elasticity. The vulcanization can only be reversed by thermal destruction.

The **Thermoplastic Elastomers (TPEs)** show a completely different behaviour. As their name conveys, these materials turn plastic during heating, when cooling, however, they revert to elastic behaviour again. In contrast to the **chemical polymerization** of rubber, in this case a **physical polymerization** occurs.

Considering their structure and behaviour, TPEs range between thermoplastics and elastomers. They can be processed as easily as thermoplastics and have the most important properties of rubber. Above all, TPEs are not a risk to the environment. In contrast to rubber they can simply be recycled and re-processed.

In the mean time, there exists a plurality of TPE qualities for the most various applications such as the food handling industry which must comply with FDA quality standards.

PVC

PVC (polyvinyl-chloride) is the most important among all polymers.

The advantages of **PVC** are its stability as a material and its extremely good resistance against the weather. It does not corrode, is hardly flammable and does not de-polymerize. Yet, the formation of dioxines during combustion is an extreme disadvantage.

Nowadays, PVC is mostly used in construction, medicine (in instruments, not drugs) and packing. There is a difference made between hard PVC, used in pipes, profiles for windows and borders (ratio of PVC: 77-89%) and soft PVC, which is used in insulation, tubes, floors, and edge protection profiles (ratio of PVC: 44-61%).

Inside of our products we have 3 different materials we can use. Two of them (steel and wire carrier) is known by our customers because everyone is using them but the last one is exclusive and unknown: **POM**

POM

It offers a superior blend of strength, hardness, lubricity and dimensional stability. POM is a semi-crystalline thermoplastic and is characterized by a low coefficient of friction and good wear properties that are not affected by wet environments. **POM** offers good resistance to a wide range of chemicals, including many solvents. Acetal provides high strength and hardness combined with easy process ability. It also attracts attention with its high mechanical strength, heat resistance and good antifriction properties. These properties, along with its inherent ease of processing, have made **POM** the most widely used engineering-grade thermoplastic.

As a result of various R&D studies, due to these features and lack of electrical conductivity, we added them to our product pool as an option for our customers instead of steel and wire carrier used in our **PVC-TPE** sealing products.

STEEL CARRIER OR WIRE CARRIER OR POM CARRIER?

By using either **steel**, **wire** or **pom carrier** the edge protection sections will cling well, without the use of splicing tape. However, the use of a **steel carrier** will have a higher clamping effect than a **wire carrier** or **pom carrier**.

The disadvantage of a profile with an unbroken **steel carrier** is a restricted bending radius over the lateral blade. This can be solved by breaking the connecting bridges. However, a slightly uneven strand may develop if this is done. In most technical applications the appearance will be irrelevant.

The choice of either steel, a wire or POM carrier largely depends on the application situation, and the desired appearance.



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OUR TOLERANCE RANGES

We use our tolerance ranges according to DIN standarts.

Our Tole	erance Ranges				
PVC/TPE - Profiles (cross sections) based on DIN 16941 3A and 3B					
Nominal range in mm	+/- mm				
Up to 3	0,4 mm				
> 3 to 6	0,6 mm				
> 6 to 10	0,7 mm				
> 10 to 18	0,8 mm				
> 18 to 30	1,0 mm				
> 30 to 50	1,2 mm				
> 50 to 80	1,5 mm				
> 80 to 120	1,9 mm				
> 120 to 180	2,3 mm				
> 180 to 250	2,8 mm				
> 250 to 320	3,5 mm				
> 🛕 320	1,4 %				



PVC / TPE – Edge Protection Profiles

POM plastic. Doesn't rust. 100% Guarantee. Also possible with colors

No metals are used, so our products are 100% rustproof! Also electrically safe!

6,5	6,5	10,2	16,0	11.6
61-1000	61-1001	61-1002	61-1003	61-1004
POM - TPE/PVC	POM - TPE/PVC	POM - TPE/PVC	POM - TPE/PVC	POM - TPE/PVC
0.5 - 1.5 MM	0.8 - 2 MM	1 - 4 MM	5 - 8 MM	2.5 - 5 MM

10.5	14,2	102	11.6	6.5
61-1005	61-1006	61-1007	61-1008	61-1009
POM - TPE/PVC	POM - TPE/PVC	POM - TPE/PVC	POM - TPE/PVC	POM - TPE/PVC
1.5 - 4 MM	1.5 - 4 MM	1.5 - 4 MM	2.5 - 5 MM	0.8 - 2 MM

PVC / TPE – Edge Protection Profiles / Also Possible with Color



6	6,5	11,5	13,5	14,5
61-100	61-105	61-107	61-109	61-110
PVC – Steel Carrier	PVC – Steel Carrier	PVC – Steel Carrier	PVC – Steel Carrier	PVC – Steel Carrier
0.5 - 2 MM	0.5 - 2 MM	1 - 2 MM	1 - 3,5 MM	1 - 4 MM

14,5	14,5	10	7,81	10
61-115	61-120	61-125	61-130	61-135
PVC – Steel Carrier	PVC – Steel Carrier	PVC – Steel Carrier	PVC – Steel Carrier	PVC – Steel Carrier
2 - 5 MM	1 - 4 MM	1 - 4 MM	2 - 4 MM	2 - 4 MM
	Λ		4 - 6 MM	4 - 6 MM



91	14	22,5	
61-140	61-145	61-150	
PVC – Steel Carrier	PVC – Steel Carrier	PVC – Steel Carrier	
2 - 4 MM	5 - 8 MM	1 - 4 MM	
4 - 6 MM	8 - 10 MM		

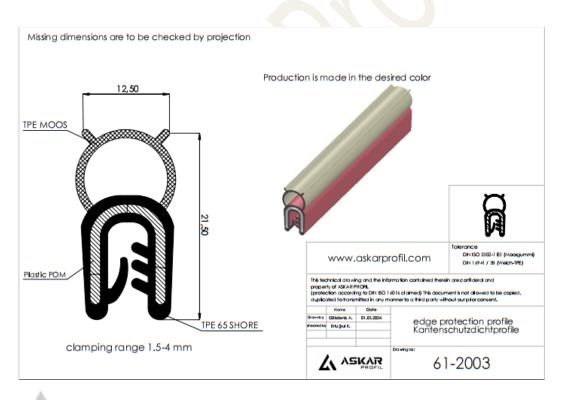
6,5	14,5	10	11 11	10
61-200	61-201	61-202	61-203	61-204
PVC - TPE	PVC - TPE	PVC - TPE	PVC - TPE	PVC - TPE
Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier
0.8-2 MM	1 - 4 MM	1 - 4 MM	2 - 4 MM	2 - 4 MM
A			4-6 MM	4 - 6 MM



TPE – Edge Protection Sealing Profiles

POM Plastic Does Not Rust 100% Guarantee / Also Possible With Color

7.5	13,2	0.00		24,5
61-2000	61-2001	61-2002	61-2003	61-2004
TPE-Pom	TPE-Pom	TPE-Pom	TPE-Pom	TPE-Pom
1 - 2 MM	1 - 2 MM	1 - 2 MM	1,5 - 4 MM	1,5 - 4 MM





TPE – Edge Protection Sealing Profiles

Sealing Grommets Made of TPE Foam Rubber

7.5	13.2	12.5	14.5	31.5
61-3000	61-3001	61-3002	61-3003	61-3004
TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier
1 - 2 MM	1 - 2 MM	1 - 3 MM	1 - 4 MM	1 - 4 MM

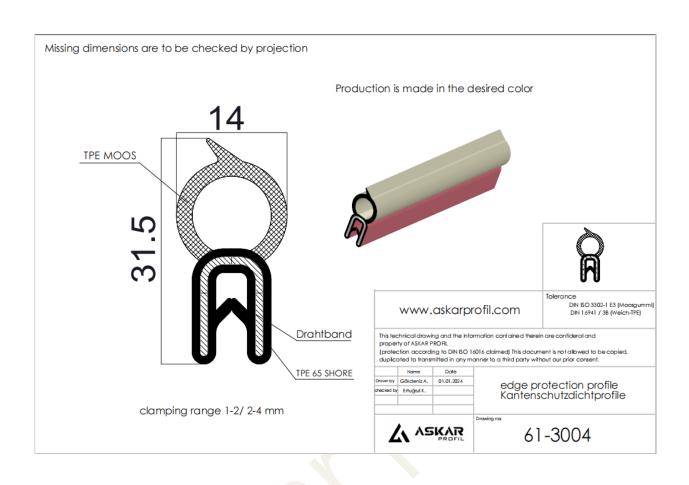
16.9	18	18	12.3 F	25.4
61-3005	61-3006	61-3007	61-3008	61-3009
TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier
1 - 3 MM	1 - 4 MM	1 - 4 MM	3 - 8 MM	3 - 5 MM

21	9.5	6.5	12.7	15.6
61-3010	61-3011	61-3012	61-3013	61-3014
TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier
1 - 4 MM	1 - 2 MM	1 - 4 MM	1 - 4 MM	3 - 5 MM

25.7	17.4	23.5 15	12	17
61-3015	61-3016	61-3017	61-3018	61-3019
TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier
2 - 5 MM	1 - 4 MM	1 - 3 MM	1 - 3 MM	3 - 5 MM

1				
15.5	19.5	18.5	16 17	14.5
61-3020	61-3021	61-3022	61-3023	61-3024
TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier
1 - 4 MM	1 - 4 MM	1 - 4 MM	2 - 4 MM	2.5 - 5 MM





33 22 8,7	25 7 28		15	14.5
61-3025	61-3026	61-3027	61-3028	61-3029
TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier	TPE- Wire Carrier
0.5 - 1.5 MM	1.5 - 3.5 MM	1-3 mm	1-3 mm	1 - 3 mm

PVC Edge Protection Sealing Profiles

Sealing Grommets Made of EPDM Foam Rubber with

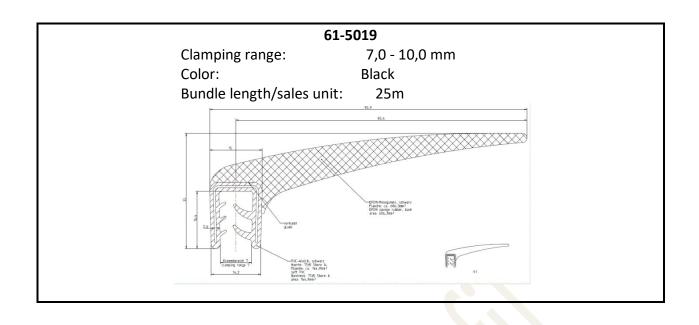
15,1	8,7	110	10	12,7
61-5001	61-5002	61-5003	61-5004	61-5005
EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC
Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier
1 - 2 MM	1 - 2 MM	3 - 6 MM	1 - 4 MM	1 - 4 MM

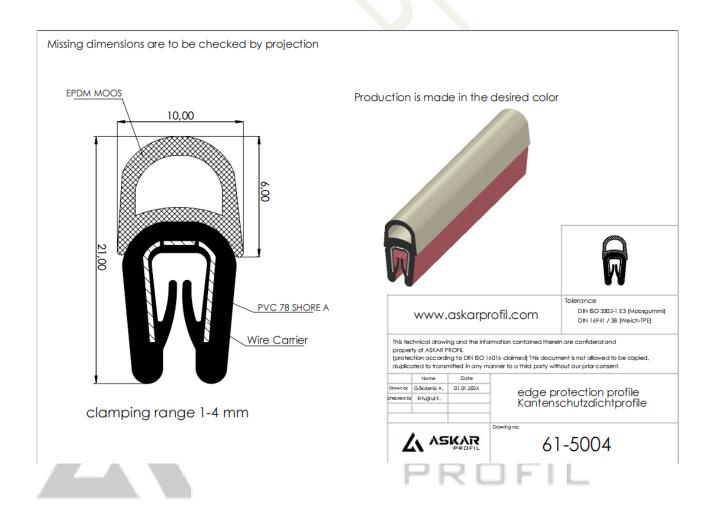
13,2	14 *Z	14,5	9'88'	21,3
61-5006	61-5007	61-5008	61-5009	61-5010
EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC
Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier
1-2,5 / 2-4 / 4-6 MM	1 - 4 MM	1 - 4 MM	2 - 4,5 MM	2 - 4,5 MM

19,8	20	28	17,4	26,6 88
61-5011	61-5012	61-5013	61-5014	61-5015
EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC
Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier
1 - 4 MM	2 - 5 MM	2 - 4,5 MM	1 - 4 MM	1 - 4 MM

82	25	31.5		24
61-5016	61-5017	61-5018	61-5019	61-5020
EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC	EPDM – PVC
Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier	Steel Carrier
1 - 4 MM	2 - 5 MM	1 - 4 MM	7 - 10 MM	2,5 - 5 MM







PVC Edge Protection Sealing Profiles

Sealing Grommets Made of EPDM Foam Rubber with

15,1	8,7	110	10 6	12,7
61-6001	61-6002	61-6003	61-6004	61-6005
EPDM – TPE	EPDM – TPE	EPDM – TPE	EPDM – TPE	EPDM – TPE
Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier
1 - 2 MM	1 - 2 MM	3 - 6 MM	1 - 4 MM	1 - 4 MM

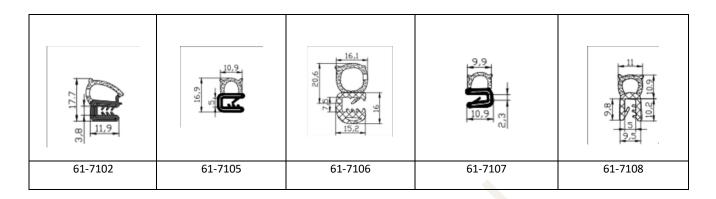
13,2	⁴² 14	14,5	38°e	21,3
61-6006	61-6007	61-6008	61-6009	61-6010
EPDM – TPE	EPDM – TPE	EPDM – TPE	EPDM – TPE	EPDM – TPE
Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier
1-2,5 / 2-4 / 4-6 MM	1 - 4 MM	1 - 4 MM	2 - 4,5 MM	2 - 4,5 MM

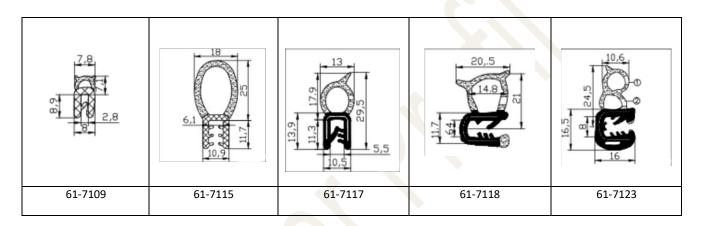
19,8	20	28	17,4	26,6 *** *** *** ***
61-6011	61-6012	61-6013	61-6014	61-6015
EPDM – TPE	EPDM – TPE	EPDM – TPE	EPDM – TPE	EPDM – TPE
Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier
1 - 4 MM	2 - 5 MM	2 - 4,5 MM	1 - 4 MM	1 - 4 MM

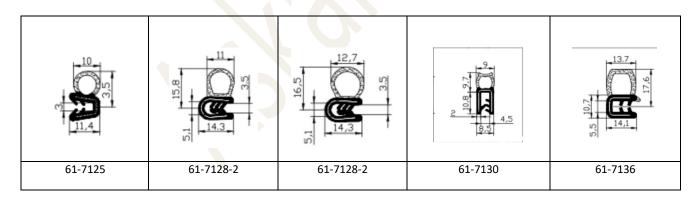
82	25	31.5	24	
61-6016	61-6017	61-6018	61-5019	
EPDM – TPE	EPDM – TPE	EPDM – TPE	EPDM – TPE	
Wire Carrier	Wire Carrier	Wire Carrier	Wire Carrier	
1 - 4 MM	2 - 5 MM	1 - 4 MM	2,5 – 5 mm	

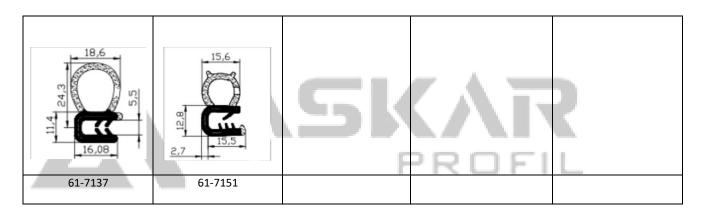


Edge Protection Sealing Profiles Made of EPDM

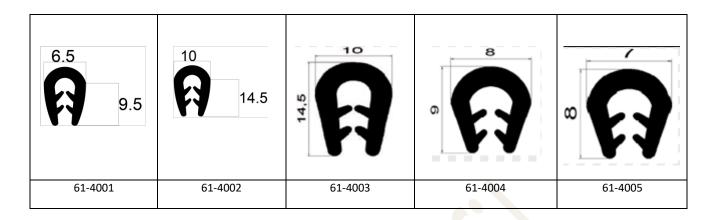


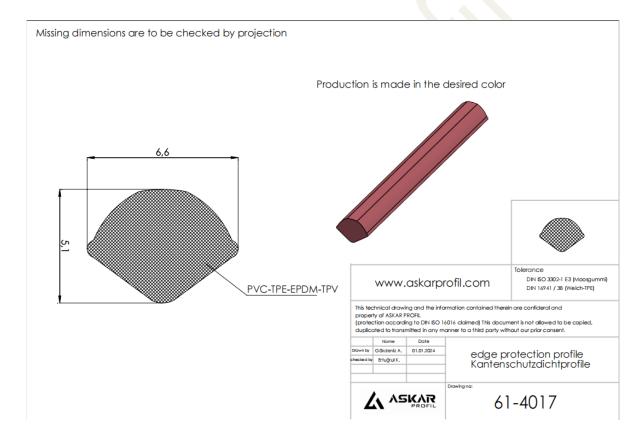


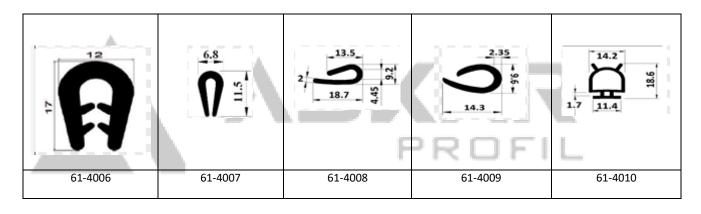


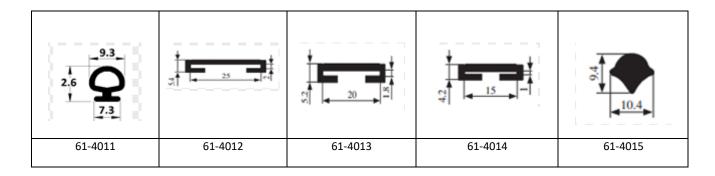


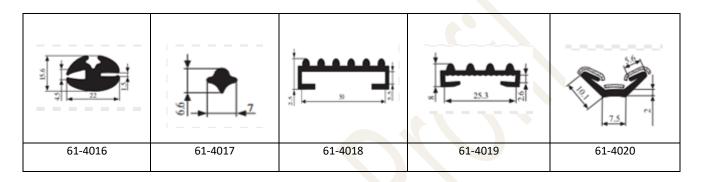
EPDM / TPE / TPV / PVC - PROFILE

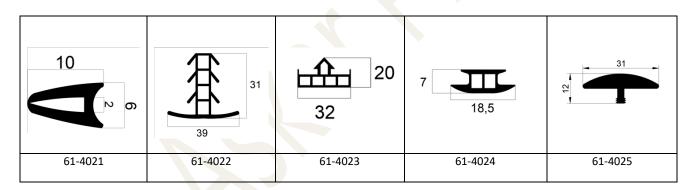


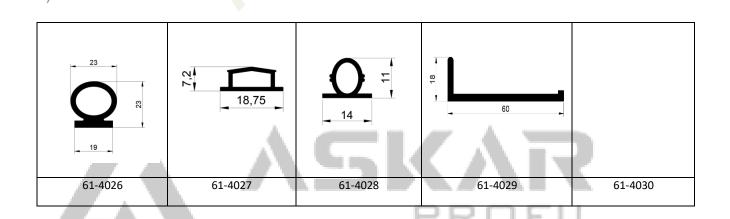








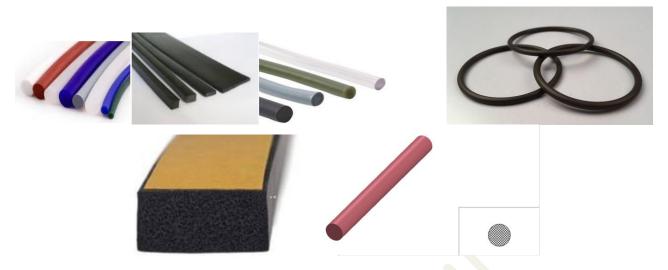




5 2.2	13.5			
61-4031	61-4032	61-4033	61-4034	61-4035







EPDM / TPE /TPV / PVC

EPDM / TPE /TPV / PVC

Ø 2 mm	Ø 8.5 mm	Ø 20 mm	Ø 33 mm
Ø 2.5 mm	Ø 9 mm	Ø 21 mm	Ø 34 mm
Ø 3 mm	Ø 9.5 mm	Ø 22 mm	Ø 35 mm
Ø 3.5 mm	Ø 10 mm	Ø 23 mm	Ø 36 mm
Ø 4 mm	Ø 11 mm	Ø 24 mm	Ø 37 mm
Ø 4.5 mm	Ø 12 mm	Ø 25 mm	Ø 38 mm
Ø 5 mm	Ø 13 mm	Ø 26 mm	Ø 39 mm
Ø 5.5 mm	Ø 14 mm	Ø 27 mm	Ø 44 mm
Ø 6 mm	Ø 15 mm	Ø 28 mm	
Ø 6.5 mm	Ø 16 mm	Ø 29 mm	
Ø 7 mm	Ø 17 mm	Ø 30 mm	
Ø 7.5 mm	Ø 18 mm	Ø 31 mm	
Ø 8 mm	Ø 19 mm	Ø 32 mm	

Injection Molds





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