Monprene® OM-10152

Thermoplastic Elastomer

Teknor Apex Company

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Technical Data

Product Description

Monprene® OM-10152 is a Thermoplastic Elastomer (TPE) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Typical applications include:

- Handles
- Engineering/Industrial Parts
- Adhesives/Tapes
- Appliances
- Business/Office Goods

General

Material Status	• Commercial: Active		
Literature [1]	• Processing - Overmolding Guide (English) • Technical Datasheet		
Search for UL Yellow Card	• Teknor Apex Company • Monprene®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Appliances • Bonding • Cell Phones • Dental Applications	• Flexible Grips • Handles • Knobs • Overmolding	• Power/Other Tools • Sporting Goods • Toothbrush Handles • Writing Instruments
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ASTM D1238

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.93	MPa	ASTM D412
Tensile Strength (Break)	4.83	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A [3]	45		
Shore A [4, 5]	54		
Shore A, 5 sec [4, 5]	52		

Additional Information	Nominal Value	Unit
Adhesion to Nylon		

Injection	Nominal Value	Unit
Drying Temperature	65.6	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	232 to 243	°C
Middle Temperature	249 to 266	°C
Front Temperature	254 to 271	°C
Nozzle Temperature	266 to 277	°C
Processing (Melt) Temp	221 to 243	°C
Mold Temperature	23.9 to 60.0	°C
Injection Pressure	1.38 to 6.89	MPa

Form No. TDS-109486-en

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Injection	Nominal Value	Unit
Injection Rate	Fast	
Back Pressure	0.172 to 0.862	MPa
Screw Speed	50 to 120	rpm
Cushion	3.81 to 25.4	mm

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] Aged for 0 hr at 22°C

[4] Aged in Air for 48 hr at 22°C

[5] Conditioned for 48 hrs at 22C and 50% RH

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Where to Buy

Supplier

Teknor Apex Company
Pawtucket, RI USA
Telephone: 800-556-3864
Web: http://www.teknorapex.com/

Distributor

Chase Plastic Services, Inc.
Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: http://www.chaseplastics.com/contact/locations
Telephone: 800-232-4273
Web: http://www.chaseplastics.com/
Availability: North America

Distrupol Ltd
Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.
Telephone: 08452003040
Web: http://www.distrupol.com/
Availability: Belgium, Denmark, Finland, Ireland, Luxembourg, Netherlands, Norway, Sweden, United Kingdom

Erteco Rubber & Plastics AB
Telephone: +46 8-587 517 00
Web: http://www.erteco.se/
Availability: Denmark, Finland, Norway, Sweden

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