Monprene® R6 CP-10145 BLK

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

The Monprene RX CP-10100 Series of thermoplastic elastomer compounds is formulated to contain post-consumer (PCR) content, reducing dependency on virgin pertoleum-based plastic and contributing towards a circular economy. These materials are designed specifically for consumer product applications requiring a soft, rubber-like feel. Monprene R6 CP-10145 BLK is a low hardness, low density, unfilled grade that is suitable for injection molding and contains minimum 60% PCR content.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Recycled Content	• Post-Consumer (PCR), 60%		
Features	• Chemical Resistant • General Purpose • Good Adhesion	• Good Flexibility • Good Processability • Low Density	• Low Hardness • Low Specific Gravity
Uses	• Appliances • Consumer Applications • Flexible Grips • Furniture • Handles	• Household Goods • Knobs • Personal Care • Rubber Replacement • Safety Equipment	• Soft Touch Applications • Stationary Supplies • Toys • Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	60	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
Across Flow : 100% Strain	116	psi	
Flow : 100% Strain	203	psi	
Tensile Stress			ISO 37
Across Flow : Break	1060	psi	
Flow : Break	421	psi	
Tensile Elongation			ISO 37
Across Flow : Break	900	%	
Flow : Break	570	%	
Compression Set			ISO 815
73°F, 22 hr	16	%	
158°F, 22 hr	28	%	
212°F, 24 hr	61	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 3 sec)	45		ISO 868

Revision Date: 11/22/2023

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 356	°F
Middle Temperature	338 to 392	°F
Front Temperature	374 to 410	°F
Nozzle Temperature	374 to 428	°F
Processing (Melt) Temp	374 to 428	°F
Mold Temperature	68 to 122	°F
Injection Rate	Moderate-Fast	

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 65 °C (150 °F).

Notes

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

Teknor Apex Company
Corporate Headquarters

In U.S. for Vinyls, TPEs, Colorants,

Engineered Thermoplastics (Chem Polymer)
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

www.teknorapex.com
info@teknorapex.com

Teknor Apex B.V.

Brightlands Chemelot Campus Umonderbaan 22
6167 RD Geleen, Netherlands

Phone: +31 46 7020 950
Fax: +31 46 7020 990

www.teknorapex.com
tpe@teknorapex.com

Teknor Apex (Suzhou) Advanced Polymer Compounds Co. Pte. Ltd.

No. 78 Ping Sheng Road

Suzhou Industrial Park
Jiangsu, China 215126

Phone: (86) 512-6287-1550
Fax: (86) 512-6288-8371

www.teknorapex.com
infotaap@teknoapex.com

Teknor Apex Asia Pacific PTE. LTD.

41 Shipyard Road

Singapore 628134

Phone: (65) 6265-2544
Fax: (65) 6265-1821

www.teknorapex.com
infotaap@teknorapex.com

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