Monprene® RG-19221 NAT

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

Monprene RG-19221 is a high performance thermoplastic elastomer designed for regulated applications including food contact. Monprene RG-19221 is a low hardness, low density, high flow, unfilled grade with excellent adhesion to PP and complies with various US FDA regulations for food contact. This grade is suitable for injection molding. Please contact Teknor Apex for a regulatory compliance letter.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Moldability • Good Processability • High Flow	• Low Density • Low Hardness • Low Specific Gravity	• Slip • Soft • Without Fillers
Uses	• Consumer Applications • Gaskets • Handles • Kitchenware	• Packaging • Safety Equipment • Sporting Goods • Toothbrush Handles	• Tubing • Writing Instruments
Agency Ratings	• FDA Food Contact		
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (175°C/2.16 kg)	60	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	74.0	psi	
Flow : 100% Strain	121	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	149	psi	
Flow : 300% Strain	205	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	470	psi	
Flow : Break	281	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	750	%	
Flow : Break	570	%	
Tear Strength [2]			ASTM D624
Across Flow	77.0	lbf/in	
Flow	56.0	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	30	%	
158°F, 22 hr	95	%	

Revision Date: 7/10/2019

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	22		
Shore A, 5 sec, Injection Molded	21		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 360	°F
Middle Temperature	320 to 360	°F
Front Temperature	320 to 360	°F
Nozzle Temperature	320 to 360	°F
Processing (Melt) Temp	320 to 360	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

Injection Notes

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

Notes

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

[2] Die C, 20 in/min

[3] Type 2

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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