

# Monprene® RG-19211 NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

## General Information

### Product Description

Monprene RG-19211 NAT XRD1 is specifically designed for regulated applications including food contact, toys, and children's products. Monprene RG-19211 NAT XRD1 is a low hardness, low density grade suitable for both injection molding and extrusion. Please contact Teknor Apex for a regulatory compliance letter.

### General

Material Status	• Preliminary Data		
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 • Kitchenware	• Lids • Packaging • Seals	• Tubing
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	10	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 100% Strain	52.0	psi	
Flow : 100% Strain	53.0	psi	
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 300% Strain	124	psi	
Flow : 300% Strain	157	psi	
Tensile Strength <sup>2</sup>			ASTM D412
Across Flow : Break	464	psi	
Flow : Break	352	psi	
Tensile Elongation <sup>2</sup>			ASTM D412
Across Flow : Break	720	%	
Flow : Break	650	%	
Tear Strength <sup>2</sup>			ASTM D624
Across Flow	78.0	lbf/in	
Flow	47.0	lbf/in	
Compression Set <sup>3</sup>			ASTM D395B
73°F, 22 hr	25	%	
158°F, 22 hr	95	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	13		
Shore A, 5 sec, Injection Molded	11		

上海松翰塑化科技有限公司  
 TEKNOR APEX 特耐尔爱佩斯 一级分销商  
 teknorapex.sh.cn 联系电话: 021-58958519

Revision Date: 6/17/2016

# Monprene® RG-19211 NAT XRD1 (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

### Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	290 to 360	°F
Middle Temperature	300 to 370	°F
Front Temperature	310 to 380	°F
Nozzle Temperature	320 to 390	°F
Processing (Melt) Temp	320 to 390	°F
Mold Temperature	60 to 100	°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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	360 to 450	°F
Cylinder Zone 2 Temp.	370 to 460	°F
Cylinder Zone 3 Temp.	380 to 470	°F
Cylinder Zone 4 Temp.	385 to 475	°F
Cylinder Zone 5 Temp.	390 to 480	°F
Die Temperature	390 to 480	°F

### Extrusion Notes

Screw Speed: 30 to 100 rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Die C, 20 in/min

<sup>3</sup> Type 1

#### 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

info@teknorapex.com

#### Teknor Apex U.K. Ltd.

Tat Bank Road  
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100  
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk



Revision Date: 6/17/2016

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.