Monprene® IN-22958D (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene IN-22958D XRD1 is a high performance thermoplastic elastomer designed specifically for demanding industrial applications including slip coats. Monprene IN-22958D is a high hardness, low density, UV stabilized, unfilled grade with a low coefficient of friction that can be processed by extrusion, co-extrusion and thin extrusion coating.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • High Hardness • High Slip • Light Stabilized	• Low Density • Low Specific Gravity • Lubricated • Medium Flow	• UV Resistant • Without Fillers
Uses	• Gaskets • Industrial Applications	• Profiles • Rubber Replacement	• Thin Coatings • Tubing
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Coating	• Coextrusion	• Extrusion

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	1490	psi	
Flow : 100% Strain	1850	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	1560	psi	
Flow : 300% Strain	1900	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	1770	psi	
Flow : Break	2150	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	350	%	
Flow : Break	660	%	
Tear Strength [2]			ASTM D624
Across Flow	464	lbf/in	
Flow	874	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	26	%	
158°F, 22 hr	57	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D, 1 sec	56		
Shore D, 5 sec	53		

Revision Date: 6/1/2016

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Legal Statement

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	400 to 440	°F
Cylinder Zone 2 Temp.	400 to 440	°F
Cylinder Zone 3 Temp.	400 to 440	°F
Cylinder Zone 4 Temp.	400 to 440	°F
Cylinder Zone 5 Temp.	400 to 440	°F
Die Temperature	400 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm;

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 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

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