Telcar® TL-2417J NAT

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Telcar TL-2417J NAT is a high performance thermoplastic elastomer, available in NAT, designed for a variety of consumer and industrial applications. Telcar TL-2417J NAT is a high density, high hardness, flame retardant grade suitable for extrusion and extrusion coating.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Flame Retardant • Good Adhesion • Good Colorability	• Good Flow • Good Processability • Good Surface Finish • Good Toughness	• High Density • High Hardness • High Specific Gravity
Uses	• Consumer Applications	• Fabric Coatings	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Extrusion Coating	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	586	psi	
Flow : 100% Strain	862	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	582	psi	
Flow : 300% Strain	939	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	626	psi	
Flow : Break	968	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	800	%	
Flow : Break	410	%	
Tear Strength [2]			ASTM D624
Across Flow	221	lbf/in	
Flow	293	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	51	%	
158°F, 22 hr	76	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	89		
Shore A, 5 sec, Injection Molded	87		

Revision Date: 2/20/2017

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Legal Statement

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330 to 370	°F
Cylinder Zone 2 Temp.	340 to 380	°F
Cylinder Zone 3 Temp.	350 to 390	°F
Cylinder Zone 4 Temp.	360 to 400	°F
Cylinder Zone 5 Temp.	360 to 400	°F
Die Temperature	374 to 410	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

[2] Die C, 20 in/min

[3] Type 1

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