

Telcar® TL-2363T XRD9 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

Telcar TL-2363T XRD9 is a UV resistant thermoplastic elastomer designed for outdoor applications requiring a soft, rubber-like feel. Telcar TL-2363T XRD9 is a high hardness grade that exhibits excellent abrasion resistance, suitable for injection molding.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Ablation Resistant • Brominated • Filled • Flame Retardant	• High Flow • High Hardness • Light Stabilized • Lubricated	• Medium Density • Slip • Sunlight Resistant • UV Absorbing
Uses	• Flooring		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	878	psi	
Flow : 100% Strain	1180	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	1060	psi	
Flow : 300% Strain	1380	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	1430	psi	
Flow : Break	1810	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	520	%	
Flow : Break	550	%	
Tear Strength ²			ASTM D624
Across Flow	267	lbf/in	
Flow	329	lbf/in	
Compression Set ³			ASTM D395B
73°F, 22 hr	44	%	
158°F, 22 hr	85	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	90		
Shore A, 5 sec, Injection Molded	88		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	20	%	ASTM D2863

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Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F
Middle Temperature	350 to 390	°F
Front Temperature	360 to 400	°F
Nozzle Temperature	370 to 410	°F
Processing (Melt) Temp	370 to 410	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	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.	330 to 370	°F
Cylinder Zone 2 Temp.	340 to 380	°F
Cylinder Zone 3 Temp.	350 to 390	°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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