TEKNOR APEX

Telcar® TL-3089A XRD (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Telcar TL-3089A XRD is a general purpose thermoplastic elastomer designed for the consumer/industrial market. Telcar TL-3089A XRD is a medium density, medium hardness grade, suitable for both injection molding and extrusion.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • Low Flow	• Lubricated • Medium Density	• Medium Hardness
Uses	• Gaskets • General Purpose	• Grommets • Seals	
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color	• Opaque	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	431	psi	
Flow : 100% Strain	733	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	620	psi	
Flow : 300% Strain	1220	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	2140	psi	
Flow : Break	1980	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	850	%	
Flow : Break	520	%	
Tear Strength [2]			ASTM D624
Across Flow	286	lbf/in	
Flow	257	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	14	%	
158°F, 22 hr	87	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec	70		
Shore A, 5 sec	68		

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Telcar® TL-3089A XRD (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Processing Information		
Injection	**Nominal Value**	**Unit**
Rear Temperature	420 to 460	°F
Middle Temperature	420 to 460	°F
Front Temperature	420 to 460	°F
Nozzle Temperature	420 to 460	°F
Processing (Melt) Temp	420 to 460	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	psi
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.	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. Screen Pack Recommendation: 60/200/200/60 to 60/200/400/400/200/60 mesh size.		

Notes

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

[2] Die C, 20 in/min

[3] Type 1