+135-3858-6433 (GuangDong)
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+852-6957-5415 (HongKong)

TEKNOR APEX

Telcar® TL-2657A

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Telcar TL-2657A is a high performance thermoplastic elastomer designed for the industrial/transportation markets. Telcar TL-2657A is a high density, high hardness, RoHS compliant grade suitable for injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • Good Colorability • Good Melt Strength • Good Mold Release	• Good Moldability • Good Processability • Good Processing Stability • High Density	• High Hardness • High Specific Gravity • Light Stabilized • Medium Flow
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Exterior Trim	• Grommets • Profiles • Rubber Replacement	• Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	36000	psi	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	917	psi	
Flow : 100% Strain	1250	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	1080	psi	
Flow : 300% Strain	1450	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	2580	psi	
Flow : Break	1930	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	720	%	
Flow : Break	540	%	
Compression Set [3]			ASTM D395B
73°F, 22 hr	41	%	
158°F, 22 hr	41	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D, 1 sec, Injection Molded	40		
Shore D, 5 sec, Injection Molded	38		

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Processing Information		
Injection	**Nominal Value**	**Unit**
Rear Temperature	400 to 440	°F
Middle Temperature	400 to 440	°F
Front Temperature	400 to 440	°F
Nozzle Temperature	400 to 440	°F
Processing (Melt) Temp	400 to 440	°F
Mold Temperature	60 to 90	°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
Extrusion	**Nominal Value**	**Unit**
Cylinder Zone 1 Temp.	380 to 420	°F
Cylinder Zone 2 Temp.	380 to 420	°F
Cylinder Zone 3 Temp.	380 to 420	°F
Cylinder Zone 4 Temp.	380 to 420	°F
Cylinder Zone 5 Temp.	380 to 420	°F
Die Temperature	380 to 420	°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