+135-3858-6433 (GuangDong)
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TEKNOR APEX

Telcar® TL-3954P (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Telcar TL-3954P is a halogen-free thermoplastic elastomer, available in Nat and colors, designed for a variety electrical applications, including wire & cable, requiring flexibility over a wide temperature range. Telcar TL-3954P is a low hardness, high density, RoHS compliant grade that is 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 • Halogen Free • High Density	• High Specific Gravity • Low Hardness • Lubricated	• Medium Flow • Slip
Uses	• Appliance Wire Insulation • Appliance Wire Jacketing • Cable Jacketing • Connectors	• Flexible Cord Jacketing • Industrial Cable Insulation • Rubber Replacement • Terminal Cable Jacketing	• Underground Power Cable • Wire & Cable Applications • Wire Jacketing
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	1.16		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	800	psi	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	38		
Shore A, 5 sec, Injection Molded	36		

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	370 to 420	°F
Middle Temperature	370 to 420	°F
Front Temperature	370 to 420	°F
Nozzle Temperature	370 to 420	°F
Processing (Melt) Temp	370 to 420	°F

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Injection	Nominal Value	Unit
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.	350 to 400	°F
Cylinder Zone 2 Temp.	350 to 400	°F
Cylinder Zone 3 Temp.	350 to 400	°F
Cylinder Zone 4 Temp.	350 to 400	°F
Cylinder Zone 5 Temp.	350 to 400	°F
Die Temperature	350 to 400	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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