

Telcar® TL-3954P (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

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 Information			
Features	High specific gravity		
	High density		
	smoothness		
	Medium liquidity		
	Lubrication		
	Fill		
	Halogen-free		
	Hardness, low		
Uses	Underground cable		
	Cable sheath		
	Electrical wire sheath material		
	Electrical conductor insulation material		
	Wire and cable applications		
	Wire sheath		
	Industrial cable insulation material		
	Connector		
	cord sheath		
	Rubber substitution		
RoHS Compliance	RoHS compliance		
	Opacity		
	Available colors		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792

Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	38		ASTM D2240
Shore A, 5 seconds, injection molding	36		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5.52	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Legal statement			

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Injection	Nominal Value	Unit
Rear Temperature	188 - 216	°C
Middle Temperature	188 - 216	°C
Front Temperature	188 - 216	°C
Nozzle Temperature	188 - 216	°C
Processing (Melt) Temp	188 - 216	°C
Mold Temperature	16 - 32	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.345	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	177 - 204	°C
Cylinder Zone 2 Temp.	177 - 204	°C
Cylinder Zone 3 Temp.	177 - 204	°C
Cylinder Zone 4 Temp.	177 - 204	°C
Cylinder Zone 5 Temp.	177 - 204	°C
Die Temperature	177 - 204	°C
Extrusion instructions		

Screw Speed: 30 to 100 rpm

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