

# Telcar® TL-3954-90

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Telcar®TL-3954-90 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding. Telcar®The main characteristics of the TL-3954-90 are: flame retardant/rated flame.

Typical application areas include:

Wire and cable

Electrical/electronic applications

General Information			
UL YellowCard	E54709-245345	E142591-100745021	
Uses	Industrial Cable Jacketing 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		
Appearance	Opacity		
Forms	Particle		
Processing Method	Extrusion Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	7.76	MPa	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
RTI Elec	90.0	°C	UL 746
RTI	90.0	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	42	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, All Colors)	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	171 - 193	°C	
Middle Temperature	177 - 199	°C	
Front Temperature	182 - 204	°C	
Nozzle Temperature	188 - 210	°C	
Processing (Melt) Temp	188 - 210	°C	
Mold Temperature	25.0 - 65.6	°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.	166 - 188	°C	
Cylinder Zone 2 Temp.	171 - 193	°C	
Cylinder Zone 3 Temp.	177 - 199	°C	
Cylinder Zone 5 Temp.	182 - 204	°C	
Die Temperature	190 - 210	°C	

#### Extrusion instructions

螺杆转速30 - 100 rpm

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#### Recommended distributors for this material

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