

# Telcar® TL-2934F

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Telcar TL-2934F is a general purpose thermoplastic elastomer, available in Nat, BLK, and colors, designed for electrical applications requiring flexibility over a wide temperature range. Telcar TL-2934F is a medium hardness, high density grade that is UL 94 rated with 720hr sunlight resistance and is suitable for both injection molding and extrusion.

General Information			
Features	High specific gravity		
	High density		
	Good formability		
	Good coloring		
	Low liquidity		
	Halogenated		
	Sunlight resistance, 720 hours		
	Fill		
	brominated		
	Medium hardness		
	Flame retardancy		
Uses	Cable sheath		
	Electrical/Electronic Applications		
	Wire and cable applications		
	Wire sheath		
	Insulating material		
	Connector		
	Rubber substitution		
Agency Ratings	UL 94		
RoHS Compliance	RoHS compliance		
Appearance	White		
	Black		
	Yellow		
	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.30	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	0.10	g/10 min	ASTM D1238
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness (Shore A)	72		ASTM D2240
<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress			ASTM D412
100% strain, 0.508mm	3.03	MPa	ASTM D412
300% strain, 0.508mm	4.48	MPa	ASTM D412
Tensile Strength (fracture, 0.508mm)	11.0	MPa	ASTM D412
Tensile Elongation (fracture, 0.508mm)	600	%	ASTM D412
<b>Aging</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Change in Tensile Strength in Air (158°C, 168 hr)	7.0	%	ASTM D573
Change in Ultimate Elongation in Air (158°C, 168 hr)	-11	%	ASTM D573
Change in Tensile Strength (60°C, 168 hr, in IRM 902 Oil)	-16	%	ASTM D471
Change in Ultimate Elongation (60°C, 168 hr, in IRM 902 Oil)	-13	%	ASTM D471
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Continuous Use Temperature	105	°C	ASTM D794
Brittleness Temperature	-47.0	°C	ASTM D746
RTI Elec	50.0	°C	UL 746
RTI	50.0	°C	UL 746
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Dielectric Constant (1 kHz)	2.60		ASTM D150
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
1.5 mm, BK	V-1		UL 94
1.5 mm, NT, WT, YL	V-0		UL 94
Oxygen Index	29	%	ASTM D2863

#### Legal statement

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<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Rear Temperature	199 - 216	°C
Middle Temperature	213 - 221	°C
Front Temperature	221 - 227	°C
Nozzle Temperature	221 - 229	°C
Processing (Melt) Temp	221 - 229	°C

Mold Temperature	25 - 66	°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

#### Injection instructions

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.	193 - 210	°C
Cylinder Zone 2 Temp.	199 - 216	°C
Cylinder Zone 3 Temp.	213 - 221	°C
Cylinder Zone 4 Temp.	213 - 221	°C
Cylinder Zone 5 Temp.	221 - 227	°C
Die Temperature	221 - 229	°C

#### Extrusion instructions

Screw Speed: 30 to 100 rpm

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#### Recommended distributors for this material

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