

## Teknor Apex Telcar® TL-1934E Styrenic Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Styrenic TPE , Vinyl (PVC) , PVC, Wire and Cable Grade

### Material Notes:

Uses: Appliance Wire Insulation; Cable Jacketing; Flexible Cord Insulation; Wire and Cable Applications; Wire Jacketing Agency Ratings: UL

1581 Forms: Pellets Processing Method: Extrusion; Injection Molding Injection Notes: Injection Rate: Moderate-Fast Extrusion Notes:

Screw Speed: 30 to 100 rpm Information Provided by Teknor Apex

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Teknor-Apex-Telcar-TL-1934E-Styrenic-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Telcar-TL-1934E-Styrenic-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Melt Flow	18.0 g/10 min	18.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	ASTM D2240
Tensile Strength at Break	9.5113 MPa	1379.5 psi	Change in tensile strength in air after 168 hours at 316°F; ASTM D573
	10.26 MPa	1488 psi	Change in tensile strength in air after 3600 hours at 268°F; ASTM D573
	10.7 MPa	1550 psi	20 in/min; ASTM D412
Elongation at Break	529.2 %	529.2 %	Change in tensile elongation in air after 3600 hours at 268°F; ASTM D573
	535.5 %	535.5 %	Change in tensile elongation in air after 168 hours at 316°F; ASTM D573
	630 %	630 %	20 in/min; ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-59.0 °C	-74.2 °F	ASTM D746
Flammability, UL94	V-0	V-0	QMFZ2.E54709; QMTT2.E73402
	@Thickness 1.52 mm	@Thickness 0.0600 in	
Oxygen Index	26 %	26 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.4	2.4	ASTM D150

Electrical Properties	Metric	English	Comments
Dielectric Strength	35.4 kV/mm	500 kV/in	ASTM D419
Dissipation Factor	0.0040	0.0040	ASTM D150

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 193 °C	340 - 380 °F	
Middle Barrel Temperature	177 - 199 °C	350 - 390 °F	
Front Barrel Temperature	182 - 204 °C	360 - 400 °F	
Nozzle Temperature	188 - 210 °C	370 - 410 °F	
Zone 1	166 - 188 °C	330 - 370 °F	
Zone 2	171 - 193 °C	340 - 380 °F	
Zone 3	177 - 199 °C	350 - 390 °F	
Zone 5	182 - 204 °C	360 - 400 °F	
Die Temperature	190 - 210 °C	374 - 410 °F	
Melt Temperature	188 - 210 °C	370 - 410 °F	Processing Temperature
Mold Temperature	25.0 - 65.6 °C	77.0 - 150 °F	
Injection Pressure	1.38 - 6.89 MPa	200 - 1000 psi	
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	
Cushion	0.381 - 2.54 cm	0.150 - 1.00 in	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

Descriptive Properties	Value	Comments
Appearance	Opaque	

## Contact Songhan Plastic Technology Co.,Ltd.

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