

Telcar® TL-3260R

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar®TL-3260R 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 features of the TL-3260R are:

flame retardant/rated flame

Flame Retardant

high hardness

Typical application areas include:

Wire and cable

industrial applications

General Information	
Features	High specific gravity
	High density
	Halogenated
	Fill
	High hardness
	Flame retardancy
Uses	Building wire insulation material
	Wire and cable applications
	Wire sheath
	Industrial application
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.86	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D, 1 sec	56		ASTM D2240
Shaw D, 5 seconds	51		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Transverse flow: 100% strain	7.14	MPa	ASTM D412
Flow: 100% strain	10.7	MPa	ASTM D412

Tensile Strength			ASTM D412
Transverse flow: Fracture	11.0	MPa	ASTM D412
Flow: Fracture	10.7	MPa	ASTM D412
Tensile Elongation			ASTM D412
Transverse flow: Fracture	660	%	ASTM D412
Flow: Fracture	240	%	ASTM D412
Tear Strength - Across Flow	80.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	47	%	ASTM D395
70°C, 22 hr	86	%	ASTM D395
90°C, 70 hr	97	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ISO 188
110°C, 1008 hr	-0.30	%	ISO 188
125°C, 168 hr	2.9	%	ISO 188
Change in Tensile Strain at Break in Air			ISO 188
110°C, 1008 hr	-0.30	%	ISO 188
125°C, 168 hr	2.9	%	ISO 188
Change in Shore Hardness in Air (110°C, 1008 hr)	2.3		ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -68.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	28	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	2.32		ASTM D150
1 MHz	2.33		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	4.0E-4		ASTM D150
1 MHz	2.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	24	%	ASTM D2863
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	701	Pa · s	ASTM D3835
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

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
Drying Temperature	80.0	°C
Drying Time	2.0	hr
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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