

Telcar® TL-8732R

Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar TL-8732R is a high performance, flame retardant thermoplastic elastomer designed for electrical applications requiring flexibility over a wide temperature range. Telcar TL-8732R is a high durometer grade that is UV stabilized and RoHS compliant. This grade is UL listed and is suitable for both injection molding and extrusion.

General Information	
Features	High elasticity High tensile strength Good UV resistance Good heat aging resistance Good flexibility Good coloring Medium liquidity Halogenated Ozone resistance Good weather resistance Sunlight resistance, 720 hours General Extended tensile rate Flame retardancy
Uses	General
Agency Ratings	UL 1581
RoHS Compliance	RoHS compliance
UL File Number	QMTT2.E73409
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain, 0.508mm ²	3.24	MPa	ASTM D412

300% strain, 0.508mm ³	4.76	MPa	ASTM D412
Tensile Strength (fracture, 0.508mm)	11.7	MPa	ASTM D412
Tensile Elongation (fracture, 0.508mm)	600	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (136°C, 168 hr)	-10	%	ASTM D573
Change in Ultimate Elongation in Air (136°C, 168 hr)	-7.0	%	ASTM D573
Change in Tensile Strength (60°C, 168 hr, in IRM 902 Oil)	-4.0	%	ASTM D471
Change in Ultimate Elongation (60°C, 168 hr, in IRM 902 Oil)	2.0	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	UL 1581
Brittleness Temperature	< -60.0	°C	ASTM D746
RTI Elec	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	1.4E+16	ohms·cm	ASTM D257
50°C	6.5E+14	ohms·cm	ASTM D257
Dielectric Strength	25	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.30		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Oxygen Index	23	%	ASTM D2863
Additional Information			
Maximum Continuous Operating Temp, UL-1581: 105°C			
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

NOTE

1. die cut from extruded tapes
2. Mouth die C, 510mm/min
3. C mold, 510mm/min

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