

Telcar[®] TL-8730R

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Gonoral

Telcar TL-8730R is a high performance, flame retardant thermoplastic elastomer designed for electrical applications requiring flexibility over a wide temperature range. Telcar TL-8730R is a high durometer grade that is UV stablized and RoHS compliant. This grade is UL listed and is suitable for both injection molding and extrusion.

Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	 Flame Retardant General Purpose Good Colorability Good Flexibility Halogenated Heat Aging Resistant 	 High Density High Elasticity High Elongation High Hardness High Specific Gravity High Tensile Strength 	 Medium Flow Ozone Resistant Sunlight Resistant (720 hours) UV Resistant Weather Resistant
Uses	 Cable Jacketing Electrical Parts Electrical/Electronic Application 	General Purpose Insulation ations Rubber Replacement	Wire & Cable ApplicationsWire Jacketing
Agency Ratings	• UL 1581	• UL 94	
RoHS Compliance	 RoHS Compliant 		
UL File Number	• QMTT2.73402	• QMFZ2.E54709	
Appearance	Opaque		
Forms	Pellets		
Processing Method	Extrusion	Injection Molding	

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.24		ASTM D792	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	16	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress ^{2,3} (100% Strain, 0.0200 in)	650	psi	ASTM D412	
Tensile Stress ^{2, 3} (300% Strain, 0.0200 in)	900	psi	ASTM D412	
Tensile Strength ^{2, 3} (Break, 0.0200 in)	1800	psi	ASTM D412	
Tensile Elongation ^{2, 3} (Break, 0.0200 in)	550	%	ASTM D412	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A)	86		ASTM D2240	
Thermal	Nominal Value	Unit	Test Method	
Continuous Use Temperature	221	°F	UL 1581	
Brittleness Temperature	< -76.0	°F	ASTM D746	
RTI Elec	122	°F		
RTI Str	122	·F++有加	1411 UL 746	
Aging	Nominal Value	Phit	589585Test Method	
Change in Tensile Strength in Air (277°F, 168 hr)	10	187 日语: 021	ASTM D573	
Change in Ultimate Elongation in Air (277°F, 168 hr)	F APE 4.0	17%####	ASTM D573	
Change in Tensile Strength	122 122 Nominal Value 10 File NOR APE 4.0 TEKNOR APE 4.0 TEKNOR APE 4.0 TEKNOR APE 4.0 TEKNOR APE 4.0		ASTM D471	
140°F, 168 hr, in IRM 902 Oil	teknorap -1.0	%		
Change in Ultimate Elongation			ASTM D471	
140°F, 168 hr, in IRM 902 Oil	3.0	%		

Revision Date: 2/1/2016

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Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms∙cm	ASTM D257
Dielectric Strength	980	V/mil	ASTM D149
Dielectric Constant (1 kHz)	2.40		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in, All Colors	V-2		
0.06 in, NT, WT, BK	V-0		
Oxygen Index	26	%	ASTM D2863

Legal Statement

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Processing Information		
Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F
Middle Temperature	350 to 390	°F
Front Temperature	360 to 400	°F
Nozzle Temperature	370 to 410	°F
Processing (Melt) Temp	370 to 410	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330 to 370	°F
Cylinder Zone 2 Temp.	340 to 380	°F
Cylinder Zone 3 Temp.	350 to 390	°F
Cylinder Zone 4 Temp.	350 to 390	°F
Cylinder Zone 5 Temp.	360 to 400	°F
Die Temperature	374 to 410	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes	司公司
¹ Typical properties: these are not to be construed as specifications.	「古田泉山道商」
² Die C, 20 in/min	1V. F4 J2 (19) (19) (19) (19) (19) (19) (19) (19)
³ die cut from extruded tapes	、海松朝空や清潔を見ている21-50
	TEKNOR APPE TEKNORapex.shshsi.com

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