

Elexar® EL-1392B

Thermoplastic Elastomer

Teknor Apex Company

Message:

RoHS compliant

General Information			
UL YellowCard	E54709-100090426	E54709-100090425	E142591-100745013
Uses	E142591-100745039		
	Underground cable		
	Cable sheath		
	Electrical wire sheath material		
	Electrical conductor insulation material		
	Wire and cable applications		
	Wire sheath		
	Industrial cable insulation material		
	Connector		
	cord sheath		
	Terminal cable sheath material		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	87		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.93	MPa	ASTM D412
Tensile Strength (Break)	10.6	MPa	ASTM D412
Tensile Elongation (Break)	540	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength			ASTM D471
131°C, 3600 hr	6.0	%	ASTM D471
136°C, 168 hr	7.0	%	ASTM D471
158°C, 168 hr	-8.0	%	ASTM D471

Change in Ultimate Elongation			ASTM D471
131°C, 3600 hr	-11	%	ASTM D471
136°C, 168 hr	1.0	%	ASTM D471
158°C, 168 hr	-7.0	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -51.0	°C	ASTM D746
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	39	kV/mm	ASTM D149
Dissipation Factor (25°C, 1 MHz)	4.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.35 to 1.55mm, All Colors)	V-0		UL 94
Oxygen Index	28	%	ASTM D2863
Injection	Nominal Value	Unit	
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	25.0 - 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			
无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	154 - 166	°C	
Cylinder Zone 2 Temp.	177 - 193	°C	
Cylinder Zone 3 Temp.	193 - 204	°C	
Cylinder Zone 5 Temp.	204 - 213	°C	
Die Temperature	210 - 221	°C	
Extrusion instructions			
螺杆转速30 - 100 rpm			

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