

ISOTHANE® 3090A-FRC

Thermoplastic Polyurethane Elastomer (Polyether)

Great Eastern Resins Industrial Co., Ltd. (GRECO)

Message:

ISOTHANE 3090A-FRC product is polyether based thermoplastic polyurethane containing a halogen-free fire retardant. This product is specifically formulated for wire and cable jacket. It exhibits good toughness, hydrolysis resistance and flame retardant properties. The product can be injection molded, and extruded.

- Applications:
- General Injection & Extrusion
 - Wire & Cable
 - Hose, Tube & Profile

General Information			
Additive	Flame retardancy		
Features	Hydrolysis resistance		
	Good toughness		
	Halogen-free		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Wire sheath		
	Pipe		
	Pipe fittings		
	General		
	Profile		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	8.00	MPa	ASTM D412
100% strain	9.00	MPa	ASTM D412
300% strain	10.0	MPa	ASTM D412
Tensile Strength	15.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	110	kN/m	ASTM D624

Flammability	Nominal Value	Test Method
Flame Rating (2.0 mm)	V-0	UL 94

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	100	°C
Drying Time - Desiccant Dryer	4.0 - 6.0	hr
Dew Point - Desiccant Dryer	-40 - -30	°C
Suggested Max Moisture	0.020	%
Rear Temperature	185 - 195	°C
Middle Temperature	195 - 205	°C
Front Temperature	195 - 205	°C
Nozzle Temperature	190 - 200	°C

Extrusion	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	4.0 - 6.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	175 - 185	°C
Cylinder Zone 3 Temp.	185 - 195	°C
Cylinder Zone 5 Temp.	185 - 195	°C
Die Temperature	180 - 190	°C

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