

ISOTHANE® 1090A-FR

Thermoplastic Polyurethane Elastomer (Polyester)

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

Message:

ISOTHANE 1090A-FR product is polyester based thermoplastic polyurethane containing a halogen-free fire retardant. It exhibits good toughness 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	Good toughness
	Halogen-free
	Flame retardancy
Uses	Wire and cable applications
	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)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	11.0	MPa	ASTM D412
Tensile Strength	28.0	MPa	ASTM D412
Tensile Elongation (Break)	540	%	ASTM D412
Tear Strength	130	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	90 - 100	°C	
Drying Time - Desiccant Dryer	3.0 - 5.0	hr	
Dew Point - Desiccant Dryer	-40 - -30	°C	
Suggested Max Moisture	0.020	%	

Rear Temperature	190 - 200	°C
Middle Temperature	200 - 210	°C
Front Temperature	200 - 210	°C
Nozzle Temperature	195 - 205	°C
Extrusion	Nominal Value	Unit
Drying Temperature	90 - 100	°C
Drying Time	3.0 - 5.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	185 - 195	°C
Cylinder Zone 3 Temp.	195 - 205	°C
Cylinder Zone 5 Temp.	195 - 205	°C
Die Temperature	190 - 200	°C

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