

ISOTHANE® 3085A-FRT

Thermoplastic Polyurethane Elastomer (Polyether)

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

Message:

ISOTHANE 3085A-FRT product is polyether based thermoplastic polyurethane containing a halogen-free fire retardant. It is transparent. It exhibits good toughness, hydrolysis resistance, low temperature performance properties 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	Wire and cable applications
	Pipe
	Pipe fittings
	General
	Profile
Appearance	Clear/transparent
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	84		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	5.00	MPa	ASTM D412
100% strain	6.00	MPa	ASTM D412
300% strain	13.0	MPa	ASTM D412
Tensile Strength	34.0	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength	114	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	85	°C
Drying Time - Desiccant Dryer	4.0 - 6.0	hr
Dew Point - Desiccant Dryer	-40 - -30	°C
Suggested Max Moisture	0.020	%
Rear Temperature	180 - 190	°C
Middle Temperature	190 - 200	°C
Front Temperature	190 - 200	°C
Nozzle Temperature	185 - 195	°C
Extrusion	Nominal Value	Unit
Drying Temperature	85	°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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