

ISOTHANE® 3055D-FR

Thermoplastic Polyurethane Elastomer (Polyether)

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

Message:

ISOTHANE 3055D-FR product is polyether 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	1.19	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	14.0	MPa	ASTM D412
100% strain	16.0	MPa	ASTM D412
300% strain	25.0	MPa	ASTM D412
Tensile Strength	30.0	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength	170	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	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

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