

ISOTHANE® 3080A-FR

Thermoplastic Polyurethane Elastomer (Polyether)

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

Message:

ISOTHANE 3080A-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	1.15	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	10.0	MPa	ASTM D412
Tensile Strength	20.0	MPa	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Tear Strength	95.0	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	170 - 180	°C
Middle Temperature	180 - 190	°C
Front Temperature	180 - 190	°C
Nozzle Temperature	175 - 185	°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.	160 - 170	°C
Cylinder Zone 3 Temp.	170 - 180	°C
Cylinder Zone 5 Temp.	170 - 180	°C
Die Temperature	170 - 175	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

