

# ISOTHANE® 1085A-FR

Thermoplastic Polyurethane Elastomer (Polyester)

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

Message:

ISOTHANE 1085A-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	1.18	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	84		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	10.9	MPa	ASTM D412
Tensile Strength	31.9	MPa	ASTM D412
Tensile Elongation (Break)	610	%	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	
Rear Temperature	190 - 200	°C	
Middle Temperature	195 - 205	°C	
Front Temperature	195 - 205	°C	
Nozzle Temperature	190 - 200	°C	

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