

ISOTHANE® 3085A

Thermoplastic Polyurethane Elastomer (Polyether)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 3085A product is an 85A, polyether based thermoplastic Polyurethanes. It exhibits excellent hydrolytic resistance, fungus resistance and low temperature performance properties. It can be injection molded, blow molded, and extruded.

Suggested Applications:

Seals, Gaskets, Sheets, Film, Tube, Cable, Shoe Sole, Sporting Equipments and Mechanical Goods.

General Information			
Features	Fungus Resistant		
	Good Thermal Stability		
	Hydrolysis Resistant		
Uses	Cable Jacketing		
	Film		
	Footwear		
	Gaskets		
	Machine/Mechanical Parts		
	Seals		
	Sheet		
	Sporting Goods		
	Tubing		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	20.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	4.50	MPa	
100% Strain	5.90	MPa	
300% Strain	12.0	MPa	
Tensile Strength (Yield)	37.0	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412

Tear Strength ¹	110	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	30	%	
70°C, 22 hr	35	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	93.0	°C	
Cylinder Zone 1 Temp.	182 to 193	°C	
Cylinder Zone 2 Temp.	188 to 199	°C	
Cylinder Zone 3 Temp.	193 to 204	°C	
Adapter Temperature	193 to 204	°C	
Die Temperature	193 to 210	°C	
NOTE			

1. Die C

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