

ISOTHANE® 8102

Thermoplastic Polyurethane Elastomer
Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 8102 product is a toughened engineering thermoplastic polyurethane resin. It exhibits excellent tensile and flexural strength, toughness, solvent resistance, abrasive resistance, good fatigue resistance, and maintenance of good physical properties under UV exposure. The product can be injection molded and extruded.

General Information			
Features	Fatigue Resistant		
	Good Abrasion Resistance		
	Good Toughness		
	Good UV Resistance		
	High Strength		
	High Tensile Strength		
	Solvent Resistant		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/5.0 kg)	6.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength (Yield)	50.0	MPa	ASTM D638
Tensile Elongation (Break)	140	%	ASTM D638
Flexural Modulus	1500	MPa	ASTM D790
Flexural Strength	72.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹ (23°C)	880	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	200 to 205	°C	
Middle Temperature	210 to 220	°C	
Front Temperature	210 to 220	°C	

Nozzle Temperature	220 to 230	°C
Processing (Melt) Temp	220 to 240	°C
Mold Temperature	65.0 to 85.0	°C

NOTE

1. 3.2 mm Notch Depth

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