

ISOTHANE® 8101-B

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

Message:

ISOTHANE 8101-B product is a clear engineering thermoplastic polyurethane resin. It exhibits excellent bio-compatibility, hydrolytic resistance, fungus resistance, 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	High tensile strength		
	High strength		
	Antibacterial property		
	Solvent resistance		
	Good UV resistance		
	Good wear resistance		
	Fatigue resistance		
	Good toughness		
	Biocompatibility		
	Hydrolysis stability		
Agency Ratings	USP Class VI		
Appearance	Clear/transparent		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (224°C/5.0 kg)	22	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2090	MPa	ASTM D638
Tensile Strength (Yield)	65.0	MPa	ASTM D638
Tensile Elongation (Break)	130	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹ (23°C)	780	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525
Injection	Nominal Value	Unit	

Drying Temperature	80.0 - 85.0	°C
Suggested Max Moisture	< 0.020	%
Rear Temperature	205	°C
Middle Temperature	220	°C
Front Temperature	220	°C
Nozzle Temperature	230	°C
Processing (Melt) Temp	220 - 240	°C
Mold Temperature	65.0 - 80.0	°C
Injection instructions		
Use low compression screw with L/D of 20 or more.Keep compression ratio to be between 2:1 and 2.5:1.		
NOTE		

1.
- 3.2mm notch depth

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