

# ISOTHANE® 8301

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

**Message:**

ISOTHANE 8301 product is engineering thermoplastic polyurethane resin. It exhibits excellent tensile and flexural strength, toughness, abrasive resistance, good fatigue resistance, solvent 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		
Appearance	Clear/Transparent		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2290	MPa	ASTM D638
Tensile Strength (Yield)	71.0	MPa	ASTM D638
Tensile Elongation (Break)	28	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	68.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>1</sup> (23°C)	41	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	144	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	231 to 236	°C	
Middle Temperature	248 to 252	°C	
Front Temperature	252 to 254	°C	

Nozzle Temperature	257 to 260	°C
Processing (Melt) Temp	232 to 260	°C
Mold Temperature	80.0 to 120	°C

NOTE

1. 3.2 mm Notch Depth

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