

ISOTHANE® 8201

Thermoplastic Polyurethane Elastomer

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 8201 product is a clear-color engineering thermoplastic polyurethanes. 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 Flexibility
	Good Toughness
	Good UV Resistance
	High Tensile Strength
	Solvent Resistant
Appearance	Clear/Transparent
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength (Yield)	75.0	MPa	ASTM D638
Tensile Elongation (Break)	> 140	%	ASTM D638
Flexural Modulus	2180	MPa	ASTM D790
Flexural Strength	99.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹ (23°C)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	112	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature	99.0	°C	
Rear Temperature	208 to 225	°C	
Middle Temperature	230 to 242	°C	
Front Temperature	230 to 242	°C	
Nozzle Temperature	244 to 248	°C	

Processing (Melt) Temp	236 to 258	°C
Mold Temperature	81.0 to 98.0	°C
NOTE		
1.	3.2 mm Notch Depth	

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