

ISOTHANE® 8101

Thermoplastic Polyurethane Elastomer

Great Eastern Resins Industrial Co., Ltd. (GRECO)

Message:

ISOTHANE 8101 product is 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	High tensile strength		
	Solvent resistance		
	Good UV resistance		
	Good wear resistance		
	Fatigue resistance		
	Good toughness		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2090	MPa	ASTM D638
Tensile Strength	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 (23°C, 6.35 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	93.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	95	°C	
Drying Time - Desiccant Dryer	4.0 - 6.0	hr	
Dew Point - Desiccant Dryer	-40 - -30	°C	
Rear Temperature	195 - 210	°C	
Middle Temperature	215 - 230	°C	

Front Temperature	215 - 230	°C
Nozzle Temperature	210 - 225	°C
Processing (Melt) Temp	220 - 235	°C
Mold Temperature	65 - 80	°C

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