

ISOTHANE® 8309

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

Message:
ISOTHANE 8309 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	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)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ASTM D638
Tensile Strength	78.0	MPa	ASTM D638
Tensile Elongation (Break)	34	%	ASTM D638
Flexural Modulus	1730	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	360	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	127	°C	ASTM D648
Vicat Softening Temperature	139	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	100	°C	
Drying Time - Desiccant Dryer	4.0 - 6.0	hr	
Dew Point - Desiccant Dryer	-40 - -30	°C	
Rear Temperature	215 - 225	°C	
Middle Temperature	225 - 235	°C	

Front Temperature	225 - 235	°C
Nozzle Temperature	220 - 230	°C
Processing (Melt) Temp	220 - 235	°C
Mold Temperature	80 - 100	°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

