

# ISOTHANE® 2050D-MH

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

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

Message:

ISOTHANE 2050D-MH product is a high performance polycaprolactone based thermoplastic polyurethanes. It exhibits high elasticity, hydrolysis resistant, oil resistance and an outstanding low compression set. This product is particularly suitable for oil seals production. The product can be injection molded.

Suggested Applications:  
Gaskets, Oil Rings, Seals, Packing, Boots, Pads, Hoops, Tubes, Shoes.

General Information			
Features	Low compressive deformability		
	High elasticity		
	Hydrolysis resistance		
	Oil resistance		
	General		
Uses	Packaging		
	Washer		
	Pipe fittings		
	Seals		
	General		
	Footwear		
Processing Method	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)	51		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	18.0	MPa	ASTM D412
100% strain	20.0	MPa	ASTM D412
300% strain	26.0	MPa	ASTM D412
Tensile Strength	34.0	MPa	ASTM D412
Tensile Elongation (Break)	440	%	ASTM D412
Tear Strength	180	kN/m	ASTM D624
Compression Set			ASTM D395B
100°C, 22 hr	30	%	ASTM D395B
100°C, 70 hr	38	%	ASTM D395B
Injection	Nominal Value	Unit	
Rear Temperature	205 - 215	°C	

Middle Temperature	215 - 225	°C
Front Temperature	215 - 225	°C
Nozzle Temperature	210 - 220	°C

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