

ISOTHANE® 1065AU-AB

Thermoplastic Polyurethane Elastomer (Polyester)

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

Message:

Isothane 1065AU-AB resin is a polyester based thermoplastic polyurethane. It has excellent mechanical properties and good abrasion resistance. Isothane 1065AU-AB can be processed by injection molding.

General Information			
Features	Good wear resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	63 - 67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	35.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	2.00	MPa	ASTM D412
300% strain	6.00	MPa	ASTM D412
Tensile Strength	28.0	MPa	ASTM D412
Tensile Elongation (Break)	630	%	ASTM D412
Tear Strength	65.0	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	75	°C	
Drying Time - Desiccant Dryer	3.0 - 5.0	hr	
Dew Point - Desiccant Dryer	-40 - -30	°C	
Suggested Max Moisture	0.020	%	
Rear Temperature	170 - 180	°C	
Middle Temperature	175 - 185	°C	
Front Temperature	175 - 185	°C	
Nozzle Temperature	180 - 190	°C	
Injection Pressure	41.4 - 103	MPa	
Injection Rate	Slow-Moderate		
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0		

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