

ISOTHANE® 3095AU-RS

Thermoplastic Polyurethane Elastomer (Polyether)

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

Message:

ISOTHANE 3095AU-RS resin is a copolymer based thermoplastic polyurethane. It has excellent mechanical properties, UV resistance, hydrolysis resistance and short injection cycle time. The product can be processed by extrusion and injection molding.

General Information			
Features	Copolymer		
	Good UV resistance		
	Fast molding cycle		
	Hydrolysis resistance		
	General		
Uses	General		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	95		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	15.0	MPa	ASTM D412
100% strain	17.0	MPa	ASTM D412
300% strain	24.0	MPa	ASTM D412
Tensile Strength	40.0	MPa	ASTM D412
Tensile Elongation (Break)	570	%	ASTM D412
Tear Strength ¹	165	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	90	°C	
Drying Time - Desiccant Dryer	3.0 - 5.0	hr	
Dew Point - Desiccant Dryer	-40 - -30	°C	
Suggested Max Moisture	0.020	%	
Rear Temperature	200 - 210	°C	
Middle Temperature	205 - 215	°C	
Front Temperature	205 - 215	°C	
Nozzle Temperature	200 - 210	°C	
Extrusion	Nominal Value	Unit	

Drying Temperature	90	°C
Drying Time	4.0 - 6.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	195 - 205	°C
Cylinder Zone 3 Temp.	205 - 215	°C
Cylinder Zone 5 Temp.	205 - 215	°C
Die Temperature	200 - 210	°C

NOTE

1. C mould

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