

ISOTHANE® 3085AU-RS

Thermoplastic Polyurethane Elastomer (Polyether)

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

Message:

ISOTHANE 3085AU-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	1.12	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	6.00	MPa	ASTM D412
100% strain	7.00	MPa	ASTM D412
300% strain	11.0	MPa	ASTM D412
Tensile Strength	25.0	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength ¹	110	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	85	°C	
Drying Time - Desiccant Dryer	4.0 - 6.0	hr	
Dew Point - Desiccant Dryer	-40 - -30	°C	
Suggested Max Moisture	0.020	%	
Rear Temperature	175 - 185	°C	
Middle Temperature	185 - 195	°C	
Front Temperature	185 - 195	°C	
Nozzle Temperature	180 - 190	°C	
Extrusion	Nominal Value	Unit	

Drying Temperature	85	°C
Drying Time	4.0 - 6.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	175 - 185	°C
Cylinder Zone 3 Temp.	185 - 195	°C
Cylinder Zone 5 Temp.	185 - 195	°C
Die Temperature	180 - 190	°C

NOTE

1. C mould

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