

ISOTHANE® 3070DU-W

Thermoplastic Polyurethane Elastomer (Polyether)

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

Message:

ISOTHANE 3070DU-W resin is a polyether based thermoplastic polyurethane. It has excellent mechanical properties and hydrolysis resistance. The product can be processed by extrusion and injection molding.

General Information			
Features	Hydrolysis resistance		
	General		
Uses	General		
Processing Method	Extrusion		
	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 D)	72		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	61.0	MPa	ASTM D412
100% strain	65.0	MPa	ASTM D412
Tensile Strength	72.0	MPa	ASTM D412
Tensile Elongation (Break)	230	%	ASTM D412
Tear Strength ¹	520	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	142	°C	ASTM D1525
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	95	°C	
Drying Time - Desiccant Dryer	4.0 - 6.0	hr	
Dew Point - Desiccant Dryer	-40 - -30	°C	
Suggested Max Moisture	0.020	%	
Rear Temperature	205 - 215	°C	
Middle Temperature	215 - 225	°C	
Front Temperature	215 - 225	°C	
Nozzle Temperature	215 - 225	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	95	°C	
Drying Time	4.0 - 6.0	hr	

Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	200 - 210	°C
Cylinder Zone 3 Temp.	210 - 220	°C
Cylinder Zone 5 Temp.	210 - 220	°C
Die Temperature	210 - 220	°C

NOTE

1.
- C mould

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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



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