ISOTHANE® 1085AEU-AS

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1085AEU-AS product is polyester based thermoplastic polyurethane. It exhibits excellent hydrolytic resistance, UV resistance, easy flow, good antistatic and low temperature performance properties. This product can be injection molded, blow molded, and extruded.

Suggested Applications:

Sheet & film, Cable & wire, Boots, Hoops, Tubes, Hose.

Appearance:

Transparent spherical pellets.

General Information					
Features	Antistatic				
	Good Flow				
	Good UV Resistance				
	Hydrolytically Stable				
	Low Temperature Resistant				
Uses	Film				
	Footwear				
	Hose				
	Sheet				
	Tubing				
	Wire & Cable Applications				
Appearance	Clear/Transparent				
Forms	Pellets				
Processing Method	Blow Molding				
	Extrusion				
	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.18	g/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore A)	 85		ASTM D2240		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress			ASTM D412		
50% Strain	6.60	MPa			
100% Strain	8.80	MPa			
300% Strain	20.0	MPa			
Tensile Strength (Yield)	41.0	MPa	ASTM D412		
		%	ASTM D412		

Tear Strength ¹	140	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+8 to 1.0E+9	ohms	ASTM D257
Extrusion	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0 to 4.0	hr	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	175	°C	
Cylinder Zone 3 Temp.	180	°C	
Cylinder Zone 4 Temp.	175	°C	
Die Temperature	170	°C	
Extruder Screw L/D Ratio	25.0:1.0		
Extruder Screw Compression Ratio	3.0:1.0		
NOTE			
1.	Die C		

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