Isocor™ 637

Polyamide 6

Shakespeare Monofilaments and Specialty Polymers

Message:

Isocor™ 637 multi-polymer is a linear polyamide with unique solubility characteristics and physical properties. Unlike conventional polyamides, Isocor™ 637 is soluble in common alcohols or in alcohol / water mixtures. Isocor™ 637 is easily processed and has a wide range of applications due to its physical properties, chemical resistance, and lower melt temperatures.

Good chemical resistance

Typical applications for Isocor™ 637 include:

thread bonding

specialty coatings

pigment carriers

specialty adhesives

polymer additives

Features

General Information

reatures	Good Chemical resistance		
Uses	Coating application		
	Bonding		
	Adhesive		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Water Absorption (24 hr)	3.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	47.6	MPa	ASTM D638
Tensile Elongation (Break)	360	%	ASTM D638
Flexural Modulus	179	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	145	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Dew Point	< -17.8	°C	
Suggested Max Moisture	0.20	%	
Hopper Temperature	60.0	°C	
Rear Temperature	143 - 154	°C	
Middle Temperature	149 - 160	°C	

154 - 166	°C	
143 - 154	°C	
143 - 154	°C	
10.0 - 93.3	°C	
3.45 - 13.8	MPa	
Fast		
0.689	MPa	
Nominal Value	Unit	
0.10	0/	
0.10	%	
79.4	°C	
79.4	°C	
79.4 218	°C	
79.4 218 246	°C °C	
79.4 218 246 246	°C °C	
	143 - 154 143 - 154 10.0 - 93.3 3.45 - 13.8 Fast 0.689 Nominal Value	143 - 154 °C 143 - 154 °C 10.0 - 93.3 °C 3.45 - 13.8 MPa Fast 0.689 MPa Nominal Value Unit

Flange: 445°F (229°C)Air Dew Point (max): 0°F (-18°C)Neck: 445°F (229°C)Head: 445°F (229°C)Pump: 445°F (229°C)

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