Isocor[™] 651

Polyamide 6

Shakespeare Monofilaments and Specialty Polymers

Message:

Isocor[™] 651 multi-polymer is a linear polyamide with unique solubility characteristics and physical properties. Unlike conventional polyamides, Isocor[™] 651 is soluble in common alcohols or in alcohol / water mixtures. Isocor[™] 651 is easily processed and has a wide range of applications due to its physical properties, chemical resistance, and lower melt temperatures.

Typical applications for Isocor™ 651 include:

thread bonding

specialty coatings

pigment carriers

specialty adhesives

General Information

Features	Good chemical resistance			
Uses	Coating application			
	Bonding			
	Adhesive			
Forms	Particle			
Processing Method	Extrusion			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.08	g/cm³	ASTM D792	
Water Absorption (24 hr)	2.5	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	65		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Yield)	50.3	МРа	ASTM D638	
Tensile Elongation (Break)	350	%	ASTM D638	
Flexural Modulus	179	MPa	ASTM D790	
Thermal	Nominal Value	Unit	Test Method	
Melting Temperature	154	°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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