

Isocor™ TT65SI

Polyamide 6

Shakespeare Monofilaments and Specialty Polymers

Message:

Isocor™ TT65SI multi-polymer is a linear polyamide with unique solubility characteristics and physical properties. Unlike conventional polyamides, Isocor™ TT65SI is soluble in common alcohols or in alcohol / water mixtures. Isocor™ TT65SI 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™ TT65SI include:

thread bonding
specialty coatings
pigment carriers
specialty adhesives
polymer additives

General Information	
Features	Workability, good
	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/cm ³	ASTM D792
Water Absorption (24 hr)	3.1	%	ASTM D570
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	143	°C	DSC

Additional Information		
Relative Viscosity: 65		
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
Front Temperature	154 - 166	°C
Nozzle Temperature	143 - 154	°C
Processing (Melt) Temp	143 - 154	°C
Mold Temperature	10.0 - 93.3	°C

Injection Pressure	3.45 - 13.8	MPa
Injection Rate	Fast	
Back Pressure	0.689	MPa
Extrusion	Nominal Value	Unit
Suggested Max Moisture	0.10	%
Hopper Temperature	79.4	°C
Cylinder Zone 1 Temp.	218	°C
Cylinder Zone 2 Temp.	246	°C
Cylinder Zone 3 Temp.	246	°C
Cylinder Zone 4 Temp.	246	°C
Die Temperature	229	°C
Extrusion instructions		

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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