

Isocor™ TT52SI

Polyamide 6

Shakespeare Monofilaments and Specialty Polymers

Message:

Isocor™ TT52SI multi-polymer is a linear polyamide with unique solubility characteristics and physical properties. Isocor™ TT52SI 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™ TT52SI include:

- pigment carriers
- specialty adhesives
- polymer additives

General Information	
Features	Workability, good
	Good chemical resistance
Uses	Adhesive
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Water Absorption (24 hr)	3.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	68.9	MPa	ASTM D638
Tensile Elongation (Break)	420	%	ASTM D638
Flexural Modulus	352	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	141	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	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	
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)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT