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

Peatures Workability, good Good chemical resistance Uses Coating application Bonding Adhesive Forms Particle Processing Method Extrusion Injection molding Adhesive Physical Nominal Value Unit Test Method Specific Gravity 1.08 g/cm³ ASTM D792 Water Absorption (24 hr) 3.1 % ASTM D792 Water Absorption (24 hr) 3.1 % ASTM D792 Metting Temperature 143 % ASTM D792 Valtional Information Test Method Morital Value Unit Relative Viscosity: 65 Test Method DSC Morital Value Unit Suggested Max Moisture 0.20 % Test Method Test Method Suggested Max Moisture 0.20 % Test Method Test Method Midel Temperature 143 - 154 "C Test Method Midel Temperature 143 - 154 "C Test Method Midel Temperature 143 - 154	General Information			
LessCating application Bonding AthesiveFormsParticleProcessing MethodParticleProcessing MethodNainal YaugePhysicalNominal ValueDigetion moldingSpecific Gravity1.08Ware Absorption (24 hr)3.1Nominal ValueUnitMethodSectoreMethodVinital ValueMethodSociMethodVinital ValueMethodSociMethodVinital ValueMethodSociAdditional InformationVinital ValueHeltive Viscosity: 65Vinital ValueInjectionNominal ValueDev Point<17.8	Features	Workability, good		
Bonding AthesiveFormsPatcleProcessing MethodRatrusion Injection moldingPhysicalNominal ValuePhysicalNominal ValueSpecific Gravity1.0Specific Gravity3.1Methag TemperatureNominal ValueMething Temperature1.3Relative Viscosity: 6.5InjectionNominal ValueMethod Specific Gravity1.3Nominal ValueVinital ComponentialMething Temperature1.4Nominal ValueVinital ComponentialMethod Specific Gravity1.4Nominal ValueVinital ComponentialMethod Specific Gravity1.4Method Spec		Good chemical resistance		
Bonding AthesiveFormsPatcleProcessing MethodRatrusion Injection moldingPhysicalNominal ValuePhysicalNominal ValueSpecific Gravity1.0Specific Gravity3.1Methag TemperatureNominal ValueMething Temperature1.3Relative Viscosity: 6.5InjectionNominal ValueMethod Specific Gravity1.3Nominal ValueVinital ComponentialMething Temperature1.4Nominal ValueVinital ComponentialMethod Specific Gravity1.4Nominal ValueVinital ComponentialMethod Specific Gravity1.4Method Spec				
AdhsiveFormsPartleProcessing MethodExtrusion Injection moldingPhysicalNominal ValuePhysicalNominal ValueMater Alsongtion (24 hr)3.1Vater Alsongtion (24 hr)3.1Mething Temperature13.0Mething Temperature13.0MethodOrdAddition InformationProperingNominal ValueMethod Society (35 hr)0.1Method Society (36 hr)0.1Method So	Uses	Coating application		
Forms Partice Processing Method Extrusion Lingction molding Physical Nominal Value Method Jold Specific Gravity 1.08 Vater Absorption (24 hr) 3.1 Mething Temperature Mominal Value Mething Temperature 143 Relative Viscosity: 65 S Flexibion Nominal Value Mominal Value Volt Relative Viscosity: 65 S Flexibion Nominal Value Specific Gravity C Specific Max Moisture 0.0 Outo C Suggested Max Moisture 6.0 Graver S Midal Temperature 14.154 Graver S Midale Temperature 14.166 Graver S Midale Temperature 14.164 Sozia Graver S Fort Temperature 14.164 Sozia Graver S Fort Temperature 14.164 Sozia Graver S Sozia Graver		Bonding		
Processing MethodExtrusion Injection moldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.08g/cm³ASTM D792Water Absorption (24 hr)3.1%ASTM D570ThermalNominal ValueUnitTest MethodMething Temperature143°CDSCAdditional InformationRelative Viscosity: 65Ingested Max Moisture0.20%-Suggested Max Moisture0.20%-Rear Temperature143 - 154°C-Middle Temperature149 - 160°C-Middle Temperature154 - 166°C-Nozzle Temperature143 - 154°C-Nozzle Temperature143 - 154°C-Noz		Adhesive		
Processing MethodExtrusion Injection moldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.08g/cm³ASTM D792Water Absorption (24 hr)3.1%ASTM D570ThermalNominal ValueUnitTest MethodMething Temperature143°CDSCAdditional InformationRelative Viscosity: 65Ingested Max Moisture0.20%-Suggested Max Moisture0.20%-Rear Temperature143 - 154°C-Middle Temperature149 - 160°C-Middle Temperature154 - 166°C-Nozzle Temperature143 - 154°C-Nozzle Temperature143 - 154°C-Noz				
Injection moldingPhysicalNominal ValueUnitTest MethodSpecific Gravity1.08g/cm³ASTM D792Water Absorption (24 hy)3.1%ASTM D570ThermalNominal ValueUnitTest MethodMelting Temperature143°CDSCAdditional InformationVVVRelative Viscosity: 65VVVDev Point <nominal td="" value<="">UnitVOugested Max Moisture0.20%VNopper Temperature6.00°CVNidel Temperature143-154°CVNotal Temperature154-166°CVNozel Temperature143-154°CVNozel Temperature</nominal>	Forms	Particle		
PhysicalNominal ValueUnitTest MethodSpecific Gravity1.08g/cm³ASTM D792Water Absorption (24 hr)3.1%ASTM D570ThermalNominal ValueUnitTest MethodMetting Temperature143°CDSCAdditional Information"Test MethodRelative Viscosity: 65UnitTest MethodDev Point°CCSuggested Max Moisture0.20%-Hopper Temperature0.30.°C-Nominal Value°CMethod143.154°C-Notzel Temperature143.154°C-Nozzel Temperature143.154°C-<	Processing Method	Extrusion		
Specific Gravity1.08g/cm³ASTM D792Water Absorption (24 hr)3.1%ASTM D570ThermalNominal ValueUnitTest MethodMelting Temperature143°CDSCAdditional InformationRelative Viscosity: 65Dew Point<17.8		Injection molding		
Specific Gravity1.08g/cm³ASTM D792Water Absorption (24 hr)3.1%ASTM D570ThermalNominal ValueUnitTest MethodMelting Temperature143°CDSCAdditional InformationRelative Viscosity: 65Dew Point<17.8				
Water Absorption (24 hr)3.1%ASTM D570ThermalNominal ValueUnitTest MethodMelting Temperature143°CDSCAdditional InformationVVVRelative Viscosity: 65VVVDew Point<17.8	Physical	Nominal Value	Unit	Test Method
ThermalNominal ValueUnitTest MethodMelting Temperature143°CDSCAdditional InformationRelative Viscosity: 65InjectionNominal ValueUnit-Dew Point<-17.8	Specific Gravity	1.08	g/cm³	ASTM D792
Melting Temperature143°CDSCAdditional InformationRelative Viscosity: 65InjectionNominal ValueUnitDew Point<-17.8	Water Absorption (24 hr)	3.1	%	ASTM D570
Additional InformationRelative Viscosity: 65InjectionNominal ValueUnitDew Point< -17.8	Thermal	Nominal Value	Unit	Test Method
Relative Viscosity: 65InjectionNominal ValueUnitDew Point<-17.8	Melting Temperature	143	°C	DSC
InjectionNominal ValueUnitDew Point< -17.8	Additional Information			
Dew Point<-17.8°CSuggested Max Moisture0.20%Hopper Temperature60.0°CRear Temperature143 - 154°CMiddle Temperature149 - 160°CFront Temperature154 - 166°CNozzle Temperature143 - 154°CNozzle Temperature143 - 154°C	Relative Viscosity: 65			
Suggested Max Moisture0.20%Hopper Temperature60.0°CRear Temperature143 - 154°CMiddle Temperature149 - 160°CFront Temperature154 - 166°CNozzle Temperature143 - 154°CProcessing (Melt) Temp143 - 154°C	Injection	Nominal Value	Unit	
Hopper Temperature60.0°CRear Temperature143 - 154°CMiddle Temperature149 - 160°CFront Temperature154 - 166°CNozzle Temperature143 - 154°CProcessing (Melt) Temp143 - 154°C	Dew Point	< -17.8	°C	
Rear Temperature143 - 154°CMiddle Temperature149 - 160°CFront Temperature154 - 166°CNozzle Temperature143 - 154°CProcessing (Melt) Temp143 - 154°C	Suggested Max Moisture	0.20	%	
Middle Temperature149 - 160°CFront Temperature154 - 166°CNozzle Temperature143 - 154°CProcessing (Melt) Temp143 - 154°C	Hopper Temperature	60.0	°C	
Front Temperature154 - 166°CNozzle Temperature143 - 154°CProcessing (Melt) Temp143 - 154°C	Rear Temperature	143 - 154	°C	
Nozzle Temperature143 - 154°CProcessing (Melt) Temp143 - 154°C	Middle Temperature	149 - 160	°C	
Processing (Melt) Temp 143 - 154 °C	Front Temperature	154 - 166	°C	
	Nozzle Temperature	143 - 154	°C	
Mold Temperature 10.0 - 93.3 °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

