

Isocor™ SC45BT

Polyamide 610

Shakespeare Monofilaments and Specialty Polymers

Message:

Isocor™ SC45BT is a medium viscosity PA-610 based copolymer. This resin is specifically suited for clear applications requiring excellent solvent resistance and impact properties. Isocor™ SC45BT is also used in applications requiring improved dimensional stability. This resin can be processed using conventional techniques.

Typical applications for SC45BT include:

injection molding

film extrusions

monofilaments / bristles

General Information				
Features		Good dimensional stability		
		Copolymer		
		Solvent resistance		
		Impact resistance, high		
		Medium viscosity		
Uses		Films		
		monofilament		
Appearance		Clear/transparent		
Forms		Particle		
Processing Method		Film extrusion		
		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.15	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	--	%	ASTM D955
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	2590	MPa	ASTM D638
Tensile Strength	47.6	31.0	MPa	ASTM D638
Tensile Elongation (Break)	51	220	%	ASTM D638
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	48	48	J/m	ASTM D256
Dart Drop Impact	4.63	8.81	J	ASTM D3029
Thermal	Dry	Conditioned	Unit	Test Method
Glass Transition Temperature	70.0	--	°C	DSC
Additional Information				

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Melting Point, ASTM D3418-97: Amorphous °C

Injection	Dry	Unit
Dew Point	< -17.8	°C
Suggested Max Moisture	0.20	%
Hopper Temperature	65.6	°C
Rear Temperature	210 - 221	°C
Middle Temperature	216 - 227	°C
Front Temperature	221 - 232	°C
Nozzle Temperature	243 - 254	°C
Processing (Melt) Temp	243 - 254	°C
Mold Temperature	10.0 - 93.3	°C
Injection Pressure	3.45 - 13.8	MPa
Injection Rate	Fast	
Back Pressure	0.345	MPa

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