

# Isocor™ CN30BT

Polyamide 610

Shakespeare Monofilaments and Specialty Polymers

Message:

Isocor™ CN30BT is a medium viscosity PA-610 based copolymer. This transparent nylon resin is specifically suited for applications requiring increased solvent resistance and clarity. Isocor™ CN30BT is also used in applications requiring high modulus and low temperature impact properties. This resin can be processed using conventional techniques.

Typical applications for CN30BT include:

- injection molding
- film extrusion

General Information	
Features	Copolymer High Clarity Low Temperature Impact Resistance Medium Viscosity Solvent Resistant
Uses	Film
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Film Extrusion Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	--	%	ASTM D955
Water Absorption (24 hr)	0.28	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2300	2260	MPa	ASTM D638
Tensile Strength	67.6	70.3	MPa	ASTM D638
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	59	59	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Glass Transition Temperature	72.8	--	°C	DSC
Injection	Dry	Unit		
Dew Point	< -17.8		°C	
Suggested Max Moisture	0.20		%	
Hopper Temperature	60.0		°C	
Rear Temperature	210 to 221		°C	

Middle Temperature	216 to 227	°C
Front Temperature	221 to 232	°C
Nozzle Temperature	243 to 254	°C
Processing (Melt) Temp	243 to 254	°C
Mold Temperature	10.0 to 93.3	°C
Injection Pressure	3.45 to 13.8	MPa
Injection Rate	Fast	
Back Pressure	0.689	MPa

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#### 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

