

NEXUS PS 830

High Impact Polystyrene

Nexus Resin Group, LLC.

Message:

High Impact Polystyrene for Injection Molding

Nexus 830 is high melt flow, high impact polystyrene specially designed for hard to fill injection molding applications. Material is targeted for large parts, thin wall parts or molds with complex runner and gate systems. The high flow material aids production of stress free parts. Applications are for thin wall molding, textile spools, and medical application, an excellent color concentrate carrier resin.

General Information			
Features	High Flow		
	High Impact Resistance		
Uses	Color Concentrates		
	Medical Devices		
	Textile Applications		
	Thin-walled Parts		
Agency Ratings	FDA Unspecified Rating		
	UL Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength (Yield)	22.8	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	39.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Instrumented Dart Impact	13.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	87.2	°C	ASTM D648
Vicat Softening Temperature	93.3	°C	ASTM D1525
Optical	Nominal Value		Test Method

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