

NEXUS PS 535B

General Purpose Polystyrene

Nexus Resin Group, LLC.

Message:

High Heat Crystal Polystyrene for Injection Molding
Nexus 535B is high melt crystal polystyrene designed for injection molding, extrusion, and blow molding. Material demonstrates excellent strength and good temperature resistance. Application is for electronics packaging, cutlery, office accessories, medical and appliance components.

General Information			
Features	Crystal		
	Good Strength		
	High Heat Resistance		
Uses	Appliance Components		
	Business Equipment		
	Disposable Tableware		
	Medical/Healthcare Applications		
	Packaging		
Agency Ratings	FDA Unspecified Rating		
	UL Unspecified Rating		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	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	2960	MPa	ASTM D638
Tensile Strength (Yield)	51.0	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	97.8	°C	ASTM D648
Vicat Softening Temperature	106	°C	ASTM D1525

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