

NEXUS PS 500

General Purpose Polystyrene

Nexus Resin Group, LLC.

Message:

High Melt Flow Crystal Polystyrene
Nexus 500 is a high melt flow crystal polystyrene for high speed injection molding applications. The high flow characteristics make it easy to fill thin wall parts. Additionally, this material exhibits excellent clarity and strength. Applications include cutlery, tumblers, containers, gloss capping material, blending crystal, and masterbatch carrier.

General Information			
Features	Crystal		
	High Clarity		
	High Flow		
	High Strength		
Uses	Blending		
	Containers		
	Masterbatch		
	Table Products		
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)	14	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	3100	MPa	ASTM D638
Tensile Strength (Yield)	44.1	MPa	ASTM D638
Flexural Modulus	3170	MPa	ASTM D790
Flexural Strength	84.1	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	90.6	°C	ASTM D648
Vicat Softening Temperature	96.7	°C	ASTM D1525

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Recommended distributors for this material

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