

NEXUS PS 740

High Impact Polystyrene

Nexus Resin Group, LLC.

Message:

Impact Polystyrene for extrusion and injection molding
Nexus 740 is an impact polystyrene designed for extrusion and injection molding. Suitable for extrusion thermoforming applications requiring high gloss and high stiffness. Unique combination of thermal properties and high stiffness favors 740 for thin walling, high-speed thermoforming gloss, small appliance, and electronics applications. Application is for food service disposables. Injection molding applications require high gloss.

General Information			
Features	High Gloss		
	High Impact Resistance		
	High Stiffness		
Uses	Electrical/Electronic Applications		
	Non-specific Food Applications		
	Thin-walled Parts		
	White Goods & Small Appliances		
Agency Ratings	FDA Unspecified Rating		
	UL Unspecified Rating		
Processing Method	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 0.80	%	ASTM D955
Water Absorption (24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2340	MPa	ASTM D638
Tensile Strength (Yield)	30.3	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	55.2	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)	93.9	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	92		ASTM D523

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