

# NEXUS PS 825

High Impact Polystyrene

Nexus Resin Group, LLC.

Message:

High Impact Polystyrene for Injection Molding

Nexus 825 is the high impact polystyrene for injection molding. This easy processing grade allows fast cycle times with minimal post stress resulting in outstanding impact retention. Advanced rubber particle size control makes this polymer the choice for all high gloss applications. Applications such as appliance housings, housewares, toys, and structural foam require this polymer to produce consistent parts. The perfect choice for those refrigeration applications.

General Information			
Features	Fast Molding Cycle		
	Foamable		
	High Gloss		
	High Impact Resistance		
Uses	Appliance Components		
	Household Goods		
	Housings		
	Structural Foam		
	Toys		
Agency Ratings	FDA Unspecified Rating		
	UL Unspecified Rating		
Processing Method	Foam Processing		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	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	2280	MPa	ASTM D638
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	44.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256

Instrumented Dart Impact	12.4	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	89.4	°C	ASTM D648
Vicat Softening Temperature	96.1	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	90		ASTM D523

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