

# NEXUS PS 625

High Impact Polystyrene

Nexus Resin Group, LLC.

## Message:

### Medium Impact Polystyrene

Nexus 625 is a medium impact polystyrene with balanced physical properties. Thin walled parts with complex runners and gates, run fast and consistently with easy flow 625. The natural whiteness of this polymer allows for brightness of color matches. This is the base carrier of choice for many color concentrate producers. Utilized in applications such as scale models, toys, housewares, and containers requiring consistency from shot to shot. An excellent polymer for those high gloss applications.

General Information			
Features	Good Colorability		
	Good Flow		
	High Gloss		
	Medium Impact Resistance		
Uses	Color Concentrates		
	Containers		
	Household Goods		
	Modeling Material		
	Toys		
Agency Ratings	FDA Unspecified Rating		
	UL Unspecified Rating		
Appearance	White		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	
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	2410	MPa	ASTM D638
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	45.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Instrumented Dart Impact	10.7	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
Gardner Gloss (60°)	97		ASTM D523

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