

## NIZHNEKAMSKNEFTEKHIM 825 High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

**Material Notes:**

Grade 825 is a high impact polystyrene for injection molding. The polymer's ability to be molded on fast cycles with minimal stresses results in outstanding impact retention. It is used in such applications as appliance housings, toys, and structural foam that require high gloss. Information provided by manufacturer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NIZHNEKAMSKNEFTEKHIM-825-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_NIZHNEKAMSKNEFTEKHIM-825-High-Impact-Polystyrene.php)

Physical Properties	Metric	English	Comments
Melt Flow	6.0 - 9.0 g/10 min @Load 5.00 kg, Temperature 200 °C	6.0 - 9.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 17.0 MPa	>= 2470 psi	ASTM D638
Elongation at Break	>= 40 %	>= 40 %	ASTM D638
Flexural Strength	>= 37.0 MPa	>= 5370 psi	ASTM D790
Izod Impact, Notched	>= 0.960 J/cm	>= 1.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	>= 84.0 °C	>= 183 °F	ASTM D1525
Flammability, UL94	<= HB @Thickness 3.20 - 3.40 mm	<= HB @Thickness 0.126 - 0.134 in	38 mm/min

Optical Properties	Metric	English	Comments
Gloss	70 %	70 %	60°; ASTM D523

Chemical Properties	Metric	English	Comments
Styrene Content	<= 0.050 %	<= 0.050 %	p. 4.10 of the TU

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