

Videolar 825 High Impact Polystyrene (HIPS)

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

Material Notes:

Injection molding grade
Medium melt flow and high gloss
Good balance between rigidity and impact
Features: Excellent mechanical strength
Excellent temperature resistance
high impact
Applications: Toys, appliance parts, construction, packaging, and structural foam
Information provided by Dax Resinas

Order this product through the following link:

http://www.lookpolymers.com/polymer_Videolar-825-High-Impact-Polystyrene-HIPS.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ISO 060
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	
Melt Flow	6.5 g/10 min @Load 5.00 kg, Temperature 200 °C	6.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Elongation at Yield	50 %	50 %	ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D638
Flexural Strength	44.0 MPa	6380 psi	ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Falling Dart Impact	14.0 J	10.3 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	@ 264 psi; ASTM D648
Vicat Softening Point	96.0 °C	205 °F	ASTM D1525
Flammability, UL94	HB	HB	

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