

Lavergne VYSTYRENE PS 3901 High Impact Polystyrene

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

Material Notes:

Vystyrene PS 3901 is a black impact modified polystyrene compound with balanced impact/stiffness properties designed for injection molding applications. Features: -High resilience -Excellent processability -Good stiffness. Typical Applications: -Molded parts and covers - Appliances housing. Information provided by Bieglo GmbH for Lavergne Performance Compounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lavergne-VYSTYRENE-PS-3901-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Melt Flow	5.0 - 8.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	5.0 - 8.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	50 mm/min; ASTM D638
Flexural Strength	45.0 MPa	6530 psi	1.3 mm/min; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.700 J/cm @Temperature 23.0 Â°C	1.31 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 Â°C	176 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Feed Temperature	175 - 185 Â°C	347 - 365 Â°F	
Middle Barrel Temperature	185 - 200 Â°C	365 - 392 Â°F	
Front Barrel Temperature	200 - 210 Â°C	392 - 410 Â°F	
Nozzle Temperature	220 - 230 Â°C	428 - 446 Â°F	
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	
Mold Temperature	30.0 - 50.0 Â°C	86.0 - 122 Â°F	

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