

Lavergne VYSTYRENE PS 3904 High Impact Polystyrene

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

Material Notes:

Vystyrene PS 3904 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-3904-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Melt Flow	8.0 - 10 g/10 min @Load 5.00 kg, Temperature 200 Â°C	8.0 - 10 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	26.0 MPa	3770 psi	50 mm/min; ASTM D638
Flexural Strength	40.0 MPa	5800 psi	1.3 mm/min; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	1.35 J/cm @Temperature 23.0 Â°C	2.53 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	78.0 Â°C	172 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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