

Shuman 810 Black Polystyrene High Impact

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

Material Notes:

Good impact strength, injection molding and extrusion grades, easy processability, good surface appearance, good gloss. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shuman-810-Black-Polystyrene-High-Impact.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Melt Flow	4.0 - 15.9 g/10 min	4.0 - 15.9 g/10 min	Ranges: 4.0 - 7.9, 8.0 - 11.9, 12.0 - 15.9; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D638
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	79.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	44.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	75.0 $\text{Å}^\circ\text{C}$	167 $\text{Å}^\circ\text{F}$	ASTM D648
Vicat Softening Point	97.0 $\text{Å}^\circ\text{C}$	207 $\text{Å}^\circ\text{F}$	ASTM D1525
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0618 in	

Processing Properties	Metric	English	Comments
Processing Temperature	204 - 227 $\text{Å}^\circ\text{C}$	399 - 441 $\text{Å}^\circ\text{F}$	

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