

Chevron Phillips EA3400 Medium Flow Crystal

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

DescriptionChevron EA3400 is a medium flow-crystal polystyrene resin developed to blend with Styrene-Butadiene block copolymers for sheet extrusion and vacuum thermoforming. EA3400 can be used in cap layer applications. EA3400 should be used in applications where clarity, toughness, and minimal taste/odor transfer is essential. This resin contains less than 250 ppm of residual volatiles. EA3400 complies with Food Additive Regulation 21CFR177.1640 for polystyrene, which states that such materials may be safely used in contact with foods.Information provided by Chevron Phillips Chemical Company.The Chevron Phillips polystyrene product line was transferred to Americas Styrenics in 2008.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-EA3400-Medium-Flow-Crystal.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	9.0 g/10 min	9.0 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Break	4.7 %	4.7 %	ASTM D638
Tensile Modulus	3.24 GPa	470 ksi	ASTM D638
Flexural Strength	64.1 MPa	9300 psi	ASTM D790B
Flexural Modulus	3.17 GPa	460 ksi	ASTM D790B
Izod Impact, Notched	0.133 J/cm	0.250 ft-lb/in	1/4 in.; ASTM D256
	0.160 J/cm	0.300 ft-lb/in	1/8 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.6 °C	186 °F	ASTM D648
Vicat Softening Point	101 °C	213 °F	ASTM D1525

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