

Dow 334.03 Developmental Performance Polypropylene Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Blow Molding Grade , Polypropylene, Extrusion Grade , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

DOW D 334.03 Developmental Performance Polypropylene Resin is a propylene-based resin intended for use in extrusion blow molded containers requiring improved impact resistance. Targeted end-use applications include food packaging and household and industrial chemicals. Main Characteristics: Excellent balance of clarity and toughness; Superior toughness versus polypropylene random copolymers; Optics (clarity) similar to clarified random copolymer; Blush (stress whitening) resistant; Complies with U.S. FDA 21 CFR 177.1520(c). This product may be used to produce articles or components of articles used in contact with all food types under Conditions of Use A through H as described in Table 2 of 21 CFR 176.170(c). Dow Announced Sale of Global Polypropylene Business to Braskem in July 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-33403-Developmental-Performance-Polypropylene-Polymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Melt Index of Compound	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Yield	11 %	11 %	ASTM D638
Flexural Modulus, 1% Secant	1140 MPa	165000 psi	ASTM D790A
Izod Impact, Notched	0.176 J/cm @Temperature 0.000 °C	0.330 ft-lb/in @Temperature 32.0 °F	ASTM D256A
	5.34 J/cm @Temperature 23.0 °C	10.0 ft-lb/in @Temperature 73.4 °F	ASTM D256A
Gardner Impact	36.6 J	27.0 ft-lb	0; ASTM D5420
	36.6 J	27.0 ft-lb	23; ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C	210 °F	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	14 %	14 %	500 microns; ASTM D1003
	30 %	30 %	1000 microns; ASTM D1003

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