

Braskem Prisma 2400 RACO Random Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

Prisma 2400 is a high melt flow rate random copolymer. This product is designed for the ISBM (Injection Stretch Blow Molding) process and offers low taste/odor. It can also be used in the blow molding process. Its applications include: injection of transparent parts for packages; and ISBM technology transparent bottles for mineral water, teas, cold juices, drinks, and isotonic beverages.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-Prisma-2400-RACO-Random-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ASTM-D792
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	71	71	ASTM-D785
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM-D638
Elongation at Yield	16 %	16 %	ASTM-D638
Flexural Modulus, 1% Secant	900 MPa	131000 psi	ASTM-D790
Izod Impact, Notched	0.160 J/cm @Temperature -20.0 °C	0.300 ft-lb/in @Temperature -4.00 °F	ASTM-D256
	0.380 J/cm @Temperature 23.0 °C	0.712 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	47.0 °C	117 °F	ASTM-D648
Vicat Softening Point	127 °C @Load 1.02 kg	261 °F @Load 2.25 lb	ASTM-D1525

Optical Properties	Metric	English	Comments
	12 %	12 %	

Haze Optical Properties	Metric @ Thickness 1.00 mm	English @ Thickness 0.0394 in	ASTM-D1003 Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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