

Borealis HB306MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HB306MO is a low melt-flow-rate polypropylene homopolymer intended for compression molding of caps and closures. This grade is designed for the caps and closures market and therefore contains a lubricant for an optimum opening torque of the cap. This grade combines a good balance of stiffness and impact strength with good processability and melt stability. Additives provide anti-static protection. Applications: closures. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HB306MO-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ISO 2039-2
Tensile Strength, Yield	39.0 MPa	5660 psi	ISO 527-2
Elongation at Yield	7.5 %	7.5 %	50mm/min; ISO 527-2
Tensile Modulus	1.90 GPa	276 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.550 J/cm ² @Temperature 23.0 °C	2.62 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 °C	356 - 500 °F	

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