

Borealis HA104E Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HA104E is a natural high molecular weight, high melt flow rate polypropylene homopolymer characterized by well-balanced stiffness to impact strength ratio at increased processing properties. Applications HA104E is recommended for non-pressure pipes and fittings, structured wall pipes and profiles and sheets. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HA104E-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	0.75 g/10 min @Load 2.16 kg, Temperature 230 °C	0.75 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	50mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Tensile Modulus	1.49 GPa	216 ksi	1mm/min; ISO 527
Charpy Impact, Notched	0.450 J/cm ² @Temperature 23.0 °C	2.14 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	ISO 75-2
Vicat Softening Point	94.0 °C @Load 5.10 kg	201 °F @Load 11.2 lb	ISO 306

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	190 - 230 °C	374 - 446 °F	
Die Temperature	200 - 230 °C	392 - 446 °F	
Melt Temperature	200 - 230 °C	392 - 446 °F	
Head Temperature	200 - 230 °C	392 - 446 °F	

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