

Borealis MG9641S Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

MG9641S is a natural high-density polyethylene with a narrow molecular weight distribution, which is produced in a low-pressure gas-phase process. This grade is designed for the injection molding of articles which require good rigidity, good flow properties and high impact strength. Applications: crates, and snow pulcas. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-MG9641S-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.964 g/cc	0.0348 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ISO 868
Tensile Strength, Yield	27.0 MPa	3920 psi	50mm/min; ISO 527-2
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.20 GPa	174 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.600 J/cm ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	0.700 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	77.0 °C	171 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 275 °C	410 - 527 °F	
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	

Descriptive Properties	Value	Comments
Hold Pressure	as low as possible	
Injection Velocity	as high as possible	

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