

Borealis MG7547S Polyethylene

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

Material Notes:

MG7547S is a high-density polyethylene produced by a low pressure process. This grade has an excellent impact strength and low distortion even at low temperatures. It also contains UV stabilizer, which makes this grade especially suited for outdoor applications.

Applications: waste bins, fish crates, and storing cases. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-MG7547S-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ISO 868
Tensile Strength, Yield	24.0 MPa	3480 psi	50mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Tensile Modulus	0.950 GPa	138 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	1.10 J/cm ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °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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