

Ecomass® 3620BX18 5% Borated Polyethylene (HDPE)

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

Material Notes:

5% Borated Polyethylene (HDPE), Product Form - Pellets, No Pre-Drying Required
Processing Method: Injection Molding, Compression Molding
Neutron Shielding Applications
Information provided by Technical Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ecomass-3620BX18-5-Borated-Polyethylene-HDPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	16.9 MPa	2450 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D638
Flexural Strength	17.2 MPa	2500 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.7 °C	170 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.6 °C	150 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 227 °C	350 - 440 °F	
Mold Temperature	21.1 - 65.6 °C	70.0 - 150 °F	

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