

Ecomass® 4703BI62 Filled Polyurethane, Injection Molding

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Moderate Specific Gravity, Filled Polyurethane (TPU), Good Flexibility, Product Form - Pellets Processing Method: Injection Molding
Nontoxic alternative to Lead, radiation shielding applications
Information provided by Technical Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ecomass-4703BI62-Filled-Polyurethane-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.20 g/cc	2.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	20.7 MPa	3000 psi	ASTM D638
Elongation at Break	225 %	225 %	ASTM D638
Tensile Modulus	0.565 GPa	82.0 ksi	ASTM D638
Flexural Strength	42.7 MPa	6200 psi	ASTM D790
Flexural Modulus	0.145 GPa	21.0 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 221 °C	400 - 430 °F	
Mold Temperature	10.0 - 26.7 °C	50.0 - 80.0 °F	
Drying Temperature	82.2 °C	180 °F	do not over dry
Dry Time	2 hour	2 hour	

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