

## Saint-Gobain Meldin<sup>®</sup> 3110 Thermoplastic Bearing Material

Category : Polymer , Thermoplastic

### Material Notes:

3110 has a very low coefficient of friction and is particularly well suited for use with soft mating surface materials such as aluminum and soft stainless steel. Meldin<sup>®</sup> 3100 materials have excellent mechanical properties, in tension and compression, and maintain an impressive level of these attributes as operating temperatures increase. These properties add extreme strength and rigidity to component parts, even in narrow cross-sections.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Meldin-3110-Thermoplastic-Bearing-Material.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-3110-Thermoplastic-Bearing-Material.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength	54.3 MPa	7880 psi	ASTM D638
Elongation at Yield	7.5 %	7.5 %	ASTM D638
Tensile Modulus	1.18 GPa	171 ksi	ASTM D 638
Flexural Strength	82.4 MPa	12000 psi	ASTM D790
Flexural Modulus	3.18 GPa	461 ksi	ASTM D790
Compressive Strength	100 MPa	14500 psi	ASTM D695
Compressive Modulus	1.78 GPa @Temperature 23.0 °C	258 ksi @Temperature 73.4 °F	ASTM D695
Izod Impact, Notched	0.203 J/cm	0.380 ft-lb/in	ASTM D256
Coefficient of Friction	0.20	0.20	Saint-Gobain
K (wear) Factor	11.95 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	5.932 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	39.0 µm/m-°C	21.7 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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