

**Grupo Repol Dinalon® B1S25 G50 50% Glass Fiber Reinforced Nylon 6**

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

**Material Notes:**

Mechanical properties are for dry as molded samples. Information provided by Grupo Repol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Grupo-Repol-Dinalon-B1S25-G50-50-Glass-Fiber-Reinforced-Nylon-6.php](http://www.lookpolymers.com/polymer_Grupo-Repol-Dinalon-B1S25-G50-50-Glass-Fiber-Reinforced-Nylon-6.php)

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in <sup>3</sup>	ISO 1183/A
Moisture Absorption at Equilibrium	<= 0.25 %	<= 0.25 %	Karl-Fischer; ISO 15512/A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Strength	340 MPa	49300 psi	ISO 178
Flexural Modulus	13.0 GPa	1890 ksi	ISO 178
Izod Impact, Notched (ISO)	17.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	8.09 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup> @Temperature 23.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.80 J/cm <sup>2</sup> @Temperature 23.0 °C	8.57 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75/A
Vicat Softening Point	>= 200 °C	>= 392 °F	50 N; ISO 306

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