

**Grupo Repol Dinalon® A1S25 G45 H PA66 45% Glass Fiber, Heat Stabilized**

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

**Material Notes:**

Mechanical properties 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-A1S25-G45-H-PA66-45-Glass-Fiber-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Grupo-Repol-Dinalon-A1S25-G45-H-PA66-45-Glass-Fiber-Heat-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 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	230 MPa	33400 psi	ISO 527
Elongation at Break	2.62 %	2.62 %	ISO 527
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	9.60 GPa	1390 ksi	ISO 178
Charpy Impact Unnotched	8.50 J/cm <sup>2</sup> @Temperature 23.0 °C	40.5 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm <sup>2</sup> @Temperature 23.0 °C	6.19 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)	250 °C	482 °F	ISO 75/A
Vicat Softening Point	>= 230 °C	>= 446 °F	50N; ISO 306

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