

## Grupo Repol Dinalon® B1S25 H PA6 Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Heat Stabilized

**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-B1S25-H-PA6-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Grupo-Repol-Dinalon-B1S25-H-PA6-Heat-Stabilized.php)

| Physical Properties                | Metric    | English                   | Comments                  |
|------------------------------------|-----------|---------------------------|---------------------------|
| Density                            | 1.13 g/cc | 0.0408 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 | 70.0 MPa  | 10200 psi  | ISO 527     |
| Elongation at Break       | 20 %  | 20 %   | ISO 527     |
| Elongation at Yield       | 3.5 %   | 3.5 %  | ISO 527     |
| Tensile Modulus           | 2.80 GPa  | 406 ksi  | ISO 527     |
| Flexural Strength         | 90.0 MPa  | 13100 psi  | ISO 178     |
| Flexural Modulus          | 2.00 GPa  | 290 ksi  | ISO 178     |
| Charpy Impact Unnotched   | NB<br>@Temperature 23.0<br>Â°C                        | NB<br>@Temperature 73.4 Â°F                            | ISO 179/1eU |
| Charpy Impact, Notched    | <= 1.00 J/cm <sup>2</sup><br>@Temperature 23.0<br>Â°C | <= 4.76 ft-lb/in <sup>2</sup><br>@Temperature 73.4 Â°F | ISO 179/1eA |

| Thermal Properties                             | Metric     | English    | Comments     |
|--|------------|------------|--------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 55.0 Â°C   | 131 Â°F    | ISO 75/A     |
| Vicat Softening Point                          | >= 200 Â°C | >= 392 Â°F | 50N; ISO 306 |

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