

**Grupo Repol Dinalon® A1X25 V0 PA66, V0 red phosphorus and halogen free**

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

**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-A1X25-V0-PA66-V0-red-phosphorus-and-halogen-free.php](http://www.lookpolymers.com/polymer_Grupo-Repol-Dinalon-A1X25-V0-PA66-V0-red-phosphorus-and-halogen-free.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 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	75.0 MPa	10900 psi	ISO 527
Elongation at Yield	2.0 %	2.0 %	ISO 527
Tensile Modulus	4.20 GPa	609 ksi	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup> @Temperature 23.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.150 J/cm <sup>2</sup> @Temperature 23.0 °C	0.714 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)	80.0 °C	176 °F	ISO 75/A
Vicat Softening Point	>= 200 °C	>= 392 °F	50N; ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	IEC 695

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