

Durethan® 1100/30H2.0 901510

Polyamide 6

Envalior

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

30% Glass Beads Reinforced, Injection Molding, Heat Stabilized, Excellent Surface Properties, Low Warpage

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English) • White Paper - High Performance Plastics in Automotive Actuator Applications (English)
Search for UL Yellow Card	• Envalior • Durethan®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Surface Finish • Heat Stabilized • Low Warpage • Outstanding Surface Finish
Processing Method	• Injection Molding
Resin ID	• PA6-GB30

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4400	1350	MPa	ISO 527-1
Tensile Stress (Break)	70.0	--	MPa	ISO 527-2
Tensile Strain (Break)	4.5	--	%	ISO 527-2
Flexural Modulus	4000	1200	MPa	ISO 178
Flexural Stress	120	45.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	< 10	kJ/m ²	
23°C	< 10	< 10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	30	kJ/m ²	
23°C	35	170	kJ/m ²	
Notched Izod Impact Strength (23°C)	< 10	< 10	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	50.0	--	°C	ISO 75-2/C
Melting Temperature ³	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	



Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 10°C/min

