

G100F30-F6

G100F30-F6 is an endless fiber glass mat reinforced PP laminate with randomly oriented glass fibers. This product provides good flow properties and low warpage tendency. It is commonly used for large, flat parts.

Properties	Standard	SI Units		Engl. Units	
<u>Physical Properties</u>					
Laminate Thickness*	Internal	3.8	mm	0.150	in
Area Weight*	Internal	4256	g/m ²	0.872	lb/ft ²
Fiber Content**	ISO 1172 / PA_73, 78	30	%	30	%
Density (Laminate)*	ISO 1183 / PA_137	1.12	g/cm ³	0.0405	lb/in ³
Density (Molded)**	ISO 1183 / PA_138	1.13	g/cm ³	0.0408	lb/in ³
<u>Mechanical Properties</u> ^{3)**}					
Tensile Strength	ISO 527 / PA_098	60	MPa	8703	psi
Tensile Elongation at Break	ISO 527 / PA_098	2.0	%	2	%
Tensile Modulus	ISO 527 / PA_098	4500	MPa	653	ksi
Flexural Strength	ISO 178 / PA_100	105	MPa	15230	psi
Flexural Modulus	ISO 178 / PA_100	4200	MPa	609	ksi
Impact Strength -	IZOD (3.2mm) Charpy (4.0mm)	ASTM D256 E	J/m		ft*lb(wt)/in
		ISO 179-1/2fn / PA_97	kJ/m ²	55	26
Multiaxial Impact (4.0mm)					
Max. Load	ASTM D-3763		N		lb(wt)
Energy @ Max. Load			J		ft*lb
Energy @ Failure			J		ft*lb
Max. Load	ISO 6603-2 / PA_406		N		lb(wt)
Energy @ Max. Load			J		ft*lb
Energy @ Failure			J		ft*lb
<u>Processing Properties</u> **					
Molding Shrinkage	ISO 2577	0.2 - 0.3	%	0.2 - 0.3	%
<u>Special Properties</u> **					
Coefficient of Thermal Expansion	EN ISO 11403-2	20 - 30	10 ⁻⁶ /K	20 - 30	10 ⁻⁶ /K
Burning Rate	ISO 3795 / FMVSS302	5 - 6	mm/min	0.2 - 0.24	in/min

1) = measured in longitudinal direction

2) = measured in transverse direction

3) = crosswise molded

4) = lengthwise molded

* = Property was determined on the laminate

** = Property was determined on flat molded plaques

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