

**B100F30-F1**

B100F30-F1 is a chopped fiber glass mat reinforced PP laminate with randomly oriented glass fibers. This product provides good flow properties, a very homogeneous fiber distribution and higher heat stabilization. It is commonly used for semi-structural applications, like front-end, backrest.

Properties	Standard	SI Units		Engl. Units		
<b><u>Physical Properties</u></b>						
Laminate Thickness*	Internal	3.8	mm	0.150	in	
Area Weight*	Internal	4256	g/m <sup>2</sup>	0.872	lb/ft <sup>2</sup>	
Fiber Content**	ISO 1172 / PA_73, 78	30	%	30	%	
Density (Laminate)*	ISO 1183 / PA_137	1.12	g/cm <sup>3</sup>	0.0405	lb/in <sup>3</sup>	
Density (Molded)**	ISO 1183 / PA_138	1.13	g/cm <sup>3</sup>	0.0408	lb/in <sup>3</sup>	
<b><u>Mechanical Properties</u></b> <sup>3)**</sup>						
Tensile Strength	ISO 527 / PA_098	60	MPa	8703	psi	
Tensile Elongation at Break	ISO 527 / PA_098	2.4	%	2.4	%	
Tensile Modulus	ISO 527 / PA_098	3930	MPa	570	ksi	
Flexural Strength	ISO 178 / PA_100	105	MPa	15230	psi	
Flexural Modulus	ISO 178 / PA_100	3740	MPa	542	ksi	
Impact Strength -	IZOD (3.2 mm)	ASTM D256 E	763	J/m	14.29	ft*lb(wt)/in
	Charpy (4.0 mm)	ISO 179-1/2fn / PA_97	65	kJ/m <sup>2</sup>	31	ft*lb/in <sup>2</sup>
Multiaxial Impact (4.0 mm)						
Max. Load	ASTM D-3763	3046	N	685	lb(wt)	
Energy @ Max. Load		16	J	12	ft*lb	
Energy @ Failure		24	J	18	ft*lb	
Max. Load	ISO 6603-2 / PA_406	4182	N	940	lb(wt)	
Energy @ Max. Load		19	J	14	ft*lb	
Energy @ Failure		38	J	28	ft*lb	
<b><u>Processing Properties</u></b> **						
Molding Shrinkage	ISO 2577	0.2-0.35	%	0.2-0.35	%	
<b><u>Special Properties</u></b> **						
Heat Deflection Temperature	ISO 75-2 / PA_350	150	°C	302	°F	
Coefficient of Thermal Expansion	EN ISO 11403-2	20-30	10 <sup>-6</sup> /K	20-30	10 <sup>-6</sup> /K	
Burning Rate	ISO 3795 / FMVSS302	<10	mm/min	<0.39	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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