

D110F30

D110F30 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 good gluability. It is commonly used for gluing applications such as spare-wheel wells.

Properties	Standard	SI Units		Engl. Units	
Physical Properties					
Laminate Thickness*	Internal	5.4	mm	0.213	in
Area Weight*	Internal	6048	g/m ²	1.239	lb/ft ²
Fiber Content**	ISO 1172 / PA_073	32	%	32	%
Density (Laminate)*	ISO 1183 / PA_137	1.12	g/cm ³	0.0405	lb/in ³
Density (Molded)**	ISO 1183 / PA_138	1.16	g/cm ³	0.0419	lb/in ³
Mechanical Properties³⁾**					
Tensile Strength	ISO 527 / PA_098	65	MPa	9428	psi
Tensile Elongation at Break	ISO 527 / PA_098	2.1	%	2.1	%
Tensile Modulus	ISO 527 / PA_098	4600	MPa	667	ksi
Flexural Strength	ISO 178 / PA_100	125	MPa	18131	psi
Flexural Modulus	ISO 178 / PA_100	4600	MPa	667	ksi
Impact Strength -	IZOD (3.2mm) Charpy (4.0mm)	ASTM D256 E ISO 179-1/2fn / PA_097	J/m		ft*lb(wt)/in
			kJ/m ²	60	29
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	4800	N	1079	lb(wt)
Energy @ Max. Load		14	J	10	ft*lb
Energy @ Failure		27	J	20	ft*lb
Processing Properties**					
Molding Shrinkage	ISO 2577	0.2 - 0.3	%	0.2 - 0.3	%
Special Properties**					
Coefficient of Thermal Expansion	EN ISO 11403-2	20 - 30	10 ⁻⁶ /K	20 - 30	10 ⁻⁶ /K
Burning Rate	ISO 3795 / FMVSS302	2.0	mm/min	0.08	in/min

Not suitable for long time of exposure during customer process

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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