

C100F35 UV

C100F35 UV 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 an additional UV-stabilization. It is commonly used for outdoor parts like air condition carrier and hoods for industrial applications.

Properties	Standard	SI Units		Engl. Units		
<u>Physical Properties</u>						
Laminate Thickness*	Internal	3.8	mm	0.150	in	
Area Weight*	Internal	4294	g/m ²	0.879	lb/ft ²	
Fiber Content**	ISO 1172 / PA_73, 78	32	%	32	%	
Density (Laminate)*	ISO 1183 / PA_137	1.13	g/cm ³	0.0408	lb/in ³	
Density (Molded)**	ISO 1183 / PA_138	1.16	g/cm ³	0.0419	lb/in ³	
<u>Mechanical Properties³⁾**</u>						
Tensile Strength	ISO 527 / PA_098	75	MPa	10879	psi	
Tensile Elongation at Break	ISO 527 / PA_098	2.3	%	2.3	%	
Tensile Modulus	ISO 527 / PA_098	4950	MPa	718	ksi	
Flexural Strength	ISO 178 / PA_100	130	MPa	18857	psi	
Flexural Modulus	ISO 178 / PA_100	5000	MPa	725	ksi	
Impact Strength -	IZOD (3.2 mm) Charpy (4.0 mm)	ASTM D256 E	543	J/m	10.17	ft*lb(wt)/in
		ISO 179-1/2fn / PA_97	90	kJ/m ²	43	ft*lb/in ²
Multiaxial Impact (4.0 mm)						
Max. Load	ASTM D-3763	3270	N	735	lb(wt)	
Energy @ Max. Load		16	J	12	ft*lb	
Energy @ Failure		25	J	18	ft*lb	
Max. Load	ISO 6603-2 / PA_406	5300	N	1191	lb(wt)	
Energy @ Max. Load		16	J	12	ft*lb	
Energy @ Failure		37	J	27	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 UL 94	UL 94	HB		HB		
Burning Rate	ISO 3795 / FMVSS302	S.E. - 6	mm/min	S.E.-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 crosswise molded plaques

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