

## X143C112-C2

X143C112-C2 is a glass fabric reinforced PP laminate. This product provides high mechanical values in longitudinal and transverse direction. It is UV stabilized and special developed for sandwich applications.

Properties	Standard	SI Units		Engl. Units	
<b>Physical Properties</b>					
Laminate Thickness*	Internal	1.4	mm	0.055	in
Area Weight*	Internal	1708	g/m <sup>2</sup>	0.350	lb/ft <sup>2</sup>
Fiber Content** random/oriented	ISO 1172	40.5	%	40	%
Density (Laminate)*	ISO 1183	1.22	g/cm <sup>3</sup>	0.0441	lb/in <sup>3</sup>
Density (Molded)**	ISO 1183	1.24	g/cm <sup>3</sup>	0.0448	lb/in <sup>3</sup>
<b>Mechanical Properties**</b>					
Tensile Strength	ISO 527 / EN 13677	1) 105 2) 90	MPa	1) 15230 2) 13055	psi
Tensile Elongation at Break	ISO 527 / EN 13677	1) 1.7 2) 1.8	%	1) 1.7 2) 1.8	%
Tensile Modulus	ISO 527 / EN 13677	1) 7000 2) 6000	MPa	1) 1015 2) 870	ksi
Impact Strength Charpy (1.8mm)	ISO 179-1/2fn	1) 28 2) 28	kJ/m <sup>2</sup>	1) 13 2) 13	ft*lb/in <sup>2</sup>
<b>Processing Properties**</b>					
Molding Shrinkage	ISO 2577	0.15 - 0.35	%		%
<b>Special Properties**</b>					
Heat Deflection Temperature	ISO 75-2	155	°C	311	°F
Coefficient of Thermal Expansion	EN ISO 11403-2	20 - 30	10 <sup>-6</sup> /K		10 <sup>-6</sup> /K
Burning Rate	ISO 3795 / FMVSS302	<30	mm/min	<1,2	in/min

- 1) = measured in longitudinal direction  
 2) = measured in transverse direction

- \* = Property was determined on the laminate  
 \*\* = Property was determined on flat molded plaques

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