ForTii®

ForTii® NMX33

PPA-GF50

50% Glass Reinforced, PA4T, Suitable for NMT, Suitable for PVD

Print Date: 2019-08-13

ForTii® NMX33 offers excellent adhesion to NMT treated metals and high mechanical performance in metal/plastics bonding. NMX33 also has a high HDT resulting in a good thermal resistance, supporting high temperature secondary processes such as high temperature PVD.

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	17500 / 17500	MPa	ISO 527-1/-2
Stress at break	280 / 230	MPa	ISO 527-1/-2
Strain at break	2.4 / 2.3	%	ISO 527-1/-2
Flexural modulus	16500 / -	MPa	ISO 178
Charpy impact strength (+23°C)	90 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14.5 / -	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	315 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	245 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10

Property Data

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Properties	Typical Data	Unit	Test Method
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Electrical properties	dry / cond		
Relative permittivity (1GHz)	4.3 / -	-	IEC 60250
Other properties	dry / cond		
Density	1640 / -	kg/m³	ISO 1183