

ForTii[®] NMX33

PPA–GF50

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

Print Date: 2024–03–27

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 / 18500	MPa	ISO 527–1/–2
Stress at break	280 / 240	MPa	ISO 527–1/–2
Strain at break	2.4 / 2.3	%	ISO 527–1/–2
Flexural modulus	16500 / 17500	MPa	ISO 178
Flexural strength	400 / 350	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14.5 / 12.5	kJ/m ²	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 3.0 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
UL recognition	Yes / *	–	–

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>ELECTRICAL PROPERTIES</i>			
Electric strength	28 / 27	kV/mm	IEC 60243-1
Relative permittivity (1GHz)	4.3 / -	-	IEC 61189-2-721
<i>OTHER PROPERTIES</i>			
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1640 / -	kg/m ³	ISO 1183

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