ForTii® NMX33

PPA-GF50 Envalior

Product Texts

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

ISO 1043 PPA-GF50

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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.2 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.7 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**17500 / 18500**	MPa	ISO 527
[C] Stress at break	**280 / 240**	MPa	ISO 527
[C] Strain at break	**2.4 / 2.3**	%	ISO 527
[C] Charpy impact strength, +23°C	**90 / 75**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**14.5 / 12.5**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**315 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**245 / ***	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**20 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**50 / ***	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**3.0 / ***	mm	-
Yellow Card available	**yes / ***	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Electric strength	**28 / 27**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**4.2 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.6 / ***	%	Sim. to ISO 62
[C] Density	**1640 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Regional Availability
North America, Europe, Asia Pacific

Delivery form
Pellets

Other text information

Injection molding

Injection Molding Recommendations
Hot runner recommendations for molding high heat performance Engineering Materials
Steel recommendations for molds screws and barrels
Trouble shooting guideline for injection molding