

Product Texts

60% Glass Reinforced, PA4T, Heat Stabilized, for Structural Parts

ISO 1043 PPA-GF60

ForTii® Ace MX54B is a high Tg PPA combining good toughness at low temperatures and chemical resistance. It is designed to have a dimensional stability close to aluminum. It has a high mechanical performance over a broad temperature range, from -35°C to above 150°C, both in dry as well as conditioned environment.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	23000 / 23800	MPa	ISO 527
^[C] Stress at break	270 / 250	MPa	ISO 527
^[C] Strain at break	1.8 / 1.85	%	ISO 527
^[C] Charpy impact strength, +23°C	90 / 75	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	75 / 75	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	13 / 11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	13 / 12	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	330 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	307 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	320 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	13 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	41 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Comparative tracking index	425 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.2 / *	%	Sim. to ISO 62
^[C] Density	1780 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection molding

[Injection Molding Recommendations](#)