

Product Texts

35% Glass Reinforced, PA4T, Electro-friendly, Enhanced Hydrolytic Stability, for Automotive applications

ISO 1043 PPA-GF35

ForTii MX15HR exhibits enhanced hydrolytic stability towards aggressive coolants (water/glycol, 135°C) that are used in engine's thermal management systems. It has excellent mechanical performance and weld-line resistance.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	12500 / 12900	MPa	ISO 527
^[C] Stress at break	240 / 220	MPa	ISO 527
^[C] Strain at break	2.6 / 2.4	%	ISO 527
^[C] Charpy impact strength, +23°C	76 / 65	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	72 / 63	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	12 / 10	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 9	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	300 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	315 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	16 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	51 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / 35	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	4.1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2 / *	%	Sim. to ISO 62
^[C] Density	1490 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Additives

Lubricants, Release agent

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](#)