

Product Texts

30% Glass Reinforced, Heat Stabilized

ISO 1043 PA410-GF30

EcoPaXX® Q-HG6 is a long aliphatic polyamide with excellent chemical & hydrolysis resistance for use in thermal management applications as well as other structural parts.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	36 / *	cm ³ /10min	ISO 1133
Temperature	290 / *	°C	-
Load	5 / *	kg	-
^[C] Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	9200 / 7000	MPa	ISO 527
^[C] Stress at break	180 / 120	MPa	ISO 527
^[C] Strain at break	3.9 / 5.8	%	ISO 527
^[C] Charpy impact strength, +23°C	80 / 80	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	60 / 60	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 15	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	9 / 9	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	250 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	215 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	243 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	22 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	81 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E12 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	1340 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Delivery form

Granules

Certifications

Contains renewable resources

Additives

Release agent

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Heat stabilized or stable to heat

Other text information**Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)