

DSM EcoPaXX® Q-KG6 PA410-GF30

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon

Material Notes:

% Glass Reinforced, Heat Stabilized, for E&E applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-EcoPaXX-Q-KG6-PA410-GF30.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	dry; ISO 1183
Moisture Absorption	1.50 %	1.50 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	115 MPa	16700 psi	cond; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	5.8 %	5.8 %	cond; ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	cond; ISO 527-1/-2
	9.50 GPa	1380 ksi	dry; ISO 527-1/-2
Flexural Strength	185 MPa	26800 psi	cond; ISO 178
	260 MPa	37700 psi	dry; ISO 178
Flexural Modulus	6.30 GPa	914 ksi	cond; ISO 178
	8.50 GPa	1230 ksi	dry; ISO 178
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	dry; ISO 179/1eA Comments
	1.10 J/cm ² @ Temperature 23.0 °C	5.23 ft-lb/in ² @ Temperature 73.4 °F	dry; ISO 179/1eA
	1.50 J/cm ² @ Temperature 23.0 °C	7.14 ft-lb/in ² @ Temperature 73.4 °F	cond; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.0 µm/m-°C	17.8 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	66.0 µm/m-°C	36.7 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	250 °C	482 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	243 °C	469 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	dry; ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	cond; IEC 60093
	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	dry; IEC 60093
Surface Resistance	1.50e+14 ohm	1.50e+14 ohm	cond; IEC 60093
Dielectric Strength	35.0 kV/mm	889 kV/in	cond; IEC 60243-1
	40.0 kV/mm	1020 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	cond; IEC 60112

Descriptive Properties	Value	Comments
Calculated Bio Based Carbon Content (%)	70	ASTM 6866

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