

DSM EcoPaXX® Q-X07208 PA410-I-GF30

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

Material Notes:

% Glass Reinforced, Impact Modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-EcoPaXX-Q-X07208-PA410-I-GF30.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	dry; ISO 1183
Moisture Absorption	1.40 %	1.40 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0067 cm/cm	0.0067 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	cond; ISO 527-1/-2
	150 MPa	21800 psi	dry; ISO 527-1/-2
Elongation at Break	4.5 %	4.5 %	dry; ISO 527-1/-2
	5.8 %	5.8 %	cond; ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	cond; ISO 527-1/-2
	8.00 GPa	1160 ksi	dry; ISO 527-1/-2
Flexural Strength	160 MPa	23200 psi	cond; ISO 178
	220 MPa	31900 psi	dry; ISO 178
Flexural Modulus	5.80 GPa	841 ksi	cond; ISO 178
	7.50 GPa	1090 ksi	dry; ISO 178
Charpy Impact Unnotched	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eU
	9.00 J/cm ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	cond; ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	dry; ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	dry; ISO 179/1eA Comments
	2.50 J/cm²	11.9 ft-lb/in²	cond; ISO 179/1eA
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 µm/m-°C	30.6 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	65.0 µm/m-°C	36.1 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)	240 °C	464 °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	1.00e+14 ohm-cm	1.00e+14 ohm-cm	cond; IEC 60093
	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	dry; IEC 60093
Dielectric Strength	38.0 kV/mm	965 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 (%)	66	ASTM 6866

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