

DSM EcoPaXX® Q-X07209 PA410-I-GF40

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-X07209-PA410-I-GF40.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	dry; ISO 1183
Moisture Absorption	1.20 %	1.20 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	130 MPa	18900 psi	cond; ISO 527-1/-2
	180 MPa	26100 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	5.4 %	5.4 %	cond; ISO 527-1/-2
Tensile Modulus	8.20 GPa	1190 ksi	cond; ISO 527-1/-2
	11.0 GPa	1600 ksi	dry; ISO 527-1/-2
Flexural Strength	190 MPa	27600 psi	cond; ISO 178
	270 MPa	39200 psi	dry; ISO 178
Flexural Modulus	8.10 GPa	1170 ksi	cond; ISO 178
	10.5 GPa	1520 ksi	dry; ISO 178
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	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/cm ²	11.9 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 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)	220 °C	428 °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
Dielectric Strength	37.0 kV/mm	940 kV/in	cond; IEC 60243-1
	38.0 kV/mm	965 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 (%)	67	ASTM 6866

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