

DSM EcoPaXX® Q-HGM24 PA410-(GF+MD)30

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

Material Notes:

10% Glass Reinforced, 20% Mineral Reinforced, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-EcoPaXX-Q-HGM24-PA410-GFMD30.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	0.0065 cm/cm	0.0065 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	65.0 MPa	9430 psi	cond; ISO 527-1/-2
	95.0 MPa	13800 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	3.6 %	3.6 %	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	115 MPa	16700 psi	cond; ISO 178
	175 MPa	25400 psi	dry; ISO 178
Flexural Modulus	4.40 GPa	638 ksi	cond; ISO 178
	6.65 GPa	965 ksi	dry; ISO 178
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.00 J/cm ²	19.0 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	dry; ISO 179/1eA Comments
	0.400 J/cm² @Temperature -30.0 °C	1.90 ft-lb/in² @Temperature -22.0 °F	dry; ISO 179/1eA
	0.530 J/cm² @Temperature 23.0 °C	2.52 ft-lb/in² @Temperature 73.4 °F	cond; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 µm/m-°C	26.7 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	75.0 µm/m-°C	41.7 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)	235 °C	455 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	dry; ISO 75-1/-2
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	dry; IEC 60695-11-10
	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	dry; IEC 60695-11-10

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

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