

DSM EcoPaXX® Q-HG10 PA410-GF50

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

Material Notes:

50% Glass Reinforced, Heat Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-EcoPaXX-Q-HG10-PA410-GF50.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	dry; ISO 1183
Moisture Absorption	1.10 %	1.10 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	170 MPa	24700 psi	cond; ISO 527-1/-2
	220 MPa	31900 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	3.5 %	3.5 %	cond; ISO 527-1/-2
Tensile Modulus	12.0 GPa	1740 ksi	cond; ISO 527-1/-2
	16.0 GPa	2320 ksi	dry; ISO 527-1/-2
Flexural Strength	250 MPa	36300 psi	cond; ISO 178
	335 MPa	48600 psi	dry; ISO 178
Flexural Modulus	11.3 GPa	1640 ksi	cond; ISO 178
	14.6 GPa	2120 ksi	dry; ISO 178
Charpy Impact Unnotched	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	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.50 J/cm ²	40.4 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	dry; ISO 179/1eA Comments
	1.50 J/cm² @Temperature 23.0 °C	7.14 ft-lb/in² @Temperature 73.4 °F	dry; ISO 179/1eA
	1.90 J/cm² @Temperature 23.0 °C	9.04 ft-lb/in² @Temperature 73.4 °F	cond; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C	23.3 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 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)	245 °C	473 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	dry; ISO 75-1/-2

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China