

DSM EcoPaXX® Q-KGS6 PA410-GF30 FR

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

Material Notes:

30% Glass Reinforced, Flame Retardant (Halogen free)

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-EcoPaXX-Q-KGS6-PA410-GF30-FR.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	dry; ISO 1183
Moisture Absorption	1.10 %	1.10 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0133 cm/cm	0.0133 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	90.0 MPa	13100 psi	cond; ISO 527-1/-2
	135 MPa	19600 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	3.8 %	3.8 %	cond; ISO 527-1/-2
Tensile Modulus	7.70 GPa	1120 ksi	cond; ISO 527-1/-2
	10.0 GPa	1450 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eU
	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	cond; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eA
	0.750 J/cm ² @Temperature 23.0 °C	3.57 ft-lb/in ² @Temperature 73.4 °F	cond; ISO 179/1eA

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	66.0 µm/m-°C	36.7 µin/in-°F	dry; ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Glow Wire Test	775 °C	1430 °F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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
Surface Resistance	6.00e+13 ohm	6.00e+13 ohm	cond; IEC 60093
Dielectric Strength	30.0 kV/mm	762 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 (%)	60	ASTM 6866

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