

DSM EcoPaXX® Q-X07207 PA410-I

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

Material Notes:

Impact Modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-EcoPaXX-Q-X07207-PA410-I.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in³	dry; ISO 1183
Moisture Absorption	1.70 %	1.70 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.028 cm/cm	0.028 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	cond; ISO 527-1/-2
	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Elongation at Break	30 %	30 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	dry; ISO 527-1/-2
	20 %	20 %	cond; ISO 527-1/-2
Tensile Modulus	0.940 GPa	136 ksi	cond; ISO 527-1/-2
	2.00 GPa	290 ksi	dry; ISO 527-1/-2
Flexural Strength	40.0 MPa	5800 psi	cond; ISO 178
	70.0 MPa	10200 psi	dry; ISO 178
Flexural Modulus	0.950 GPa	138 ksi	cond; ISO 178
	1.75 GPa	254 ksi	dry; ISO 178
Charpy Impact Unnotched	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	dry; ISO 179/1eU Comments
Charpy Impact, Notched	2.00 J/cm²	9.52 ft-lb/in²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.50 J/cm²	30.9 ft-lb/in²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.50 J/cm²	35.7 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	140 µm/m-°C	77.8 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 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)	140 °C	284 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	dry; ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	cond; IEC 60093
	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	dry; IEC 60093
Dielectric Strength	33.0 kV/mm	838 kV/in	cond; IEC 60243-1
	35.0 kV/mm	889 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 (%)	56	ASTM 6866

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