

DSM EcoPaXX® Q150-D PA410

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

Material Notes:

Low/Medium Viscosity

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-EcoPaXX-Q150-D-PA410.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	dry; ISO 1183
Moisture Absorption	2.00 %	2.00 %	Sim. To ISO 62
Viscosity Test	150 cm ³ /g	150 cm ³ /g	Viscosity Number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	cond; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	16 %	16 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	16 %	16 %	cond; ISO 527-1/-2
Tensile Modulus	1.70 GPa	247 ksi	cond; ISO 527-1/-2
	3.10 GPa	450 ksi	dry; ISO 527-1/-2
Flexural Strength	55.0 MPa	7980 psi	cond; ISO 178
	115 MPa	16700 psi	dry; ISO 178
Flexural Modulus	1.45 GPa	210 ksi	cond; ISO 178
	2.90 GPa	421 ksi	dry; ISO 178
Charpy Impact Unnotched	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	cond; ISO 179/1eU

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	NB	NB	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.30 J/cm ²	6.19 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	70.0 µm/m-°C	38.9 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 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)	175 °C	347 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	dry; ISO 75-1/-2
Glow Wire Test	825 °C	1520 °F	Glow Wire Flammability Index, dry; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	850 °C	1560 °F	Glow Wire Ignition Temperature, dry; IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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