

LNP* Stat-kon* Compound QEP35M

Americas: COMMERCIAL

LNP Stat-Kon QCL-4535 M is a compound based on Nylon 6/10 resin containing carbon fiber and PTFE/Silicone.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	119	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	119	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	23180	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	214	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	9150	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	140	MPa	ISO 527
Tensile Stress, break, 5 mm/min	140	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.5	%	ISO 527
Tensile Strain, break, 5 mm/min	2.6	%	ISO 527
Tensile Modulus, 1 mm/min	13430	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	205	MPa	ISO 178
Flexural Modulus, 2 mm/min	9810	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	718	J/m	ASTM D 4812
Izod Impact, notched, 23°C	66	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	219	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	201	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	219	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	229	°C	ISO 75/Af
PHYSICAL			
Density	1.31	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.27	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.4 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 - 1	%	ASTM D 955
Density	1.31	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.4	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+00 - 3.E+00	Ohm	ASTM D 257

Source GMD, last updated:03/26/2008

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

- (1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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