

LNP* Stat-kon* Compound RFD03

Americas: COMMERCIAL

Also known as: STAT-KON RF-15

Product Reorder Name: RFD03

LNP* Stat-Kon* RF-15 is a Nylon 6/6 containing glass fiber.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	91	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	91	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	8920	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	177	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	179	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6330	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	92	MPa	ISO 527
Tensile Stress, break, 5 mm/min	92	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.2	%	ISO 527
Tensile Strain, break, 5 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	8010	MPa	ISO 527
Flexural Stress	34	MPa	ISO 178
Flexural Modulus, 2 mm/min	6630	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	291	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
Multiaxial Impact	1	J	ISO 6603
Instrumented Impact Total Energy, 23°C	5	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	258	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	247	°C	ASTM D 648
CTE, -30°C to 30°C, flow	3.E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	8.E-06	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	245	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.35	-	ASTM D 792
Density	1.34	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.62	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5 - 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 - 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.99	%	ISO 62
ELECTRICAL			
	Value	Unit	Standard

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/11/2008

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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