

LNP* Lubriloy* Compound RF203XXH Americas: COMMERCIAL

Also known as: LUBRILOY RF-15 HC

Product Reorder Name: RF203XXH

LNP* Lubriloy* RF203XXH is a compound based on Nylon 66 resin containing Glass Fiber and Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, brk, Type I, 5 mm/min	87	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	4890	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	128	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	4180	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	90	MPa	ISO 527
Tensile Strain, break, 5 mm/min	3.8	%	ISO 527
Flexural Stress	140	MPa	ISO 178
Flexural Modulus, 2 mm/min	5500	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	646	J/m	ASTM D 4812
Izod Impact, notched, 23°C	83	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	232	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.13	g/cm ³	ASTM D 792
Wear Factor Washer	70	10 ⁻¹⁰ in ⁴ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.36	-	ASTM D 3702 Modified
Static COF	0.3	-	ASTM D 3702 Modified
Density	1.13	g/cm ³	ISO 1183

Source GMD, last updated:2009/12/10

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	270 - 280	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:2009/12/10

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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

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