LNP™ LUBRICOMP™ Compound RFL34

(PA66+PTFE)-GF20 Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP RFL34 compound is based on Nylon 6/6 resin containing 20% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link E207780-101282824

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.3**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.9**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**1.3**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**1.9**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**8060**	MPa	ISO 527
Yield stress	**155**	MPa	ISO 527
Yield strain	**3.2**	%	ISO 527
Stress at break	**155**	MPa	ISO 527
Strain at break	**3.2**	%	ISO 527
Flexural modulus	**7000**	MPa	ISO 178
Flexural strength	**223**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**67**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**11**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**8270**	MPa	ASTM D 638
Tensile Strength at Yield	**157**	MPa	ASTM D 638
Tensile Strength at Break	**157**	MPa	ASTM D 638
Elongation at Yield	**3.3**	%	ASTM D 638
Elongation at Break	**3.3**	%	ASTM D 638
Flexural Modulus	**6890**	MPa	ASTM D 790
Flexural Strength	**220**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**106**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**1170**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**250**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**262**	°C	ISO 75-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
ASTM Data			
DTUL @ 66 psi	**262**	°C	ASTM D 648
DTUL @ 264 psi	**252**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1420**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.5**	%	ASTM D 570
Density	**1420**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.25**	%	-
Melt temperature	**280 - 305**	°C	-
Mold temperature	**95 - 110**	°C	-
Zone 1	**265 - 275**	°C	-
Zone 2	**280 - 295**	°C	-

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Zone 3	**295 - 305**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
North America, Europe, Asia Pacific

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