

LNP™ LUBRICOMP™ RX05495 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RX05495 is a compound based on Nylon 66 resin containing 30% Glass Bead, Graphite, Glass Fiber, 5% Graphite Powder. Added features of this material include: Easy Molding, Heat Stabilized, Mold Release, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RFL-4316 EM HS MG MR

Product reorder name: RX05495

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight		
Additive	Graphite Powder Lubricant (5%) Heat Stabilizer		
Features	Good Mold Release Good Moldability Good Wear Resistance Heat Stabilized Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	1.5	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.46	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.84	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8000	MPa	ASTM D638
--	7500	MPa	ISO 527-2/1
Tensile Strength			
Break	118	MPa	ASTM D638
Break	113	MPa	ISO 527-2
Tensile Elongation			
Break	2.8	%	ASTM D638
Break	2.9	%	ISO 527-2
Flexural Modulus			
--	6140	MPa	ASTM D790
--	7100	MPa	ISO 178

Flexural Strength			
--	174	MPa	ASTM D790
--	176	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	6.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	670	J/m	ASTM D4812
23°C ³	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.6	J	ASTM D3763
--	2.32	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	256	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	234	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	229	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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