

LNP™ LUBRICOMP™ EFL34HL compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* EFL34HL is a compound based on Polyetherimide resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

Also known as: LNP* LUBRICOMP* Compound EFL-4034 LE

Product reorder name: EFL34HL

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.30	%	ASTM D955
Transverse flow: 24 hours	0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.60	%	ISO 294-4
Flow direction: 24 hours	0.33	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.17	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.23	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7580	MPa	ASTM D638
--	7400	MPa	ISO 527-2/1
Tensile Strength (Break)	113	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.2	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	7520	MPa	ASTM D790
--	7950	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	181	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	69	J/m	ASTM D256
23°C ²	21	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	480	J/m	ASTM D4812
23°C ³	32	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.60	J	ASTM D3763
--	2.65	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	203	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	204	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	354 - 366	°C	
Front Temperature	366 - 377	°C	
Processing (Melt) Temp	360 - 366	°C	
Mold Temperature	121 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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