

LNP™ LUBRILOY™ DF2041 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRILOY* DF2041 is a compound based on Polycarbonate resin containing 20% Glass Fiber, Proprietary Lubricant. Added features include: Flame Retardant, Wear Resistant.

Also known as: LNP* LUBRILOY* Compound DF-20 FR ECO

Product reorder name: DF2041

General Information			
UL YellowCard	E121562-101345270		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Lubricant		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.39	%	ISO 294-4
Flow : 24 hr	0.18	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.064	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6680	MPa	ASTM D638
--	6830	MPa	ISO 527-2/1
Tensile Strength			
Break	101	MPa	ASTM D638
Break	100	MPa	ISO 527-2
Tensile Elongation			
Break	2.2	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	6370	MPa	ASTM D790
--	6270	MPa	ISO 178

Flexural Strength			
--	153	MPa	ASTM D790
--	149	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.43		
vs. Itself - Static	0.36		
Wear Factor - Washer	57.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C ²	9.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	600	J/m	ASTM D4812
23°C ³	37	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.8	J	ASTM D3763
--	3.19	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	92.8	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	102	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	254 to 266	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	254 to 288	°C	
Mold Temperature	37.8 to 65.6	°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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