+135-3858-6433 (GuangDong)
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SABIC Innovative Plastics™

LNP* Lubriloy* DF2041

General Information

Product Description

LNP LUBRILOY* DF2041 is a compound based on Polycarbonate resin containing Flame Retardant, Glass Fiber, Proprietary Lubricant. Added features of this material include: Flame Retardant.

Also known as: LNP* Lubriloy* Compound DF-20 FR ECO
Product reorder name: DF2041

General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement	
Additive	• Lubricant	
Features	• Flame Retardant	• Lubricated
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33		ASTM D792
Molding Shrinkage - Flow (24 hr)	0.0020	in/in	ASTM D955
Molding Shrinkage - Across Flow (24 hr)	0.0040	in/in	ASTM D955
Molding Shrinkage			ISO 294-4
Across Flow: 24 hr	0.39	%	
Flow: 24 hr	0.18	%	
Water Absorption (24 hr, 50% RH)	0.064	%	ASTM D570
Water Absorption (Equilibrium, 73°F, 50% RH)	0.12	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2]	969000	psi	ASTM D638
Tensile Modulus	991000	psi	ISO 527-2/1
Tensile Strength (Break)	14700	psi	ASTM D638
Tensile Stress (Break)	14500	psi	ISO 527-2
Tensile Elongation (Break)	2.2	%	ASTM D638
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	924000	psi	ASTM D790
Flexural Modulus	909000	psi	ISO 178
Flexural Strength	22200	psi	ASTM D790
Flexural Strength	21600	psi	ISO 178

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SABIC Innovative Plastics - Polycarbonate

Mechanical	Nominal Value	Unit	Test Method
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 (73°F)	2.9	ft·lb/in	ASTM D256
Notched Izod Impact Strength [3] (73°F)	4.7	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact (73°F)	11	ft·lb/in	ASTM D4812
Unnotched Izod Impact Strength [3] (73°F)	18	ft·lb/in²	ISO 180/1U
Instrumented Dart Impact (73°F, Energy at Peak Load)	105	in·lb	ASTM D3763
Multi-Axial Instrumented Impact Energy	2.35	ft·lb	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.126 in	199	°F	
Heat Deflection Temperature [4]			ISO 75-2/Af
264 psi, Unannealed, 2.52 in Span	216	°F	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	480 to 500	°F
Middle Temperature	490 to 510	°F
Front Temperature	500 to 520	°F
Processing (Melt) Temp	490 to 550	°F
Mold Temperature	100 to 150	°F
Back Pressure	25.0 to 50.0	psi
Screw Speed	30 to 60	rpm

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 80*10*4

[4] 80*10*4 mm