LNP™ LUBRILOY™ Compound DF2041

PC-GF20 Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRILOY DF2041 compound is based on Polycarbonate (PC) resin containing 20% glass fiber and a proprietary lubricant. Added features of this grade include: Flame Retardant, Wear Resistant.

UL Yellow Card Link E207780-101345230

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.4**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.2**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.4**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**6830**	MPa	ISO 527
Stress at break	**100**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Flexural modulus	**6270**	MPa	ISO 178
Flexural strength	**149**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**36**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**9**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**6680**	MPa	ASTM D 638
Tensile Strength at Break	**101**	MPa	ASTM D 638
Elongation at Break	**2.2**	%	ASTM D 638
Flexural Modulus	**6370**	MPa	ASTM D 790
Flexural Strength	**153**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**154**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**603**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**102**	°C	ISO 75-1/-2
Burning behav. at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**0.4**	mm	-
ASTM Data			
DTUL @ 264 psi	**92**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.11**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.06**	%	ASTM D 570
Density	**1330**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**255 - 290**	°C	-
Mold temperature	**40 - 65**	°C	-
Zone 1	**250 - 260**	°C	-
Zone 2	**255 - 265**	°C	-
Zone 3	**260 - 270**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

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Characteristics

Processing
Injection Molding

Additives
Flame retarding agent

Special Characteristics
Flame retardant

Regional Availability
North America, Europe, Asia Pacific

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