

LNP™ VERTON™ NV0041EV_GY7E147

compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

Preliminary data for 20% long fiber single pellet non-halogen FR color filled PC/ABS

General Information			
Filler / Reinforcement	Long Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.060 to 0.26	%	
Across Flow : 24 hr	0.34 to 0.54	%	
Water Absorption			
24 hr	0.083	%	ASTM D570
23°C, 24 hr	0.11	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7640	MPa	ASTM D638
--	7040	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	99.1	MPa	ASTM D638
Yield	105	MPa	ISO 527-2/5
Break ³	99.1	MPa	ASTM D638
Break	105	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.6	%	ASTM D638
Yield	1.7	%	ISO 527-2/5
Break ⁵	1.6	%	ASTM D638
Break	1.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	8190	MPa	ASTM D790
-- ⁷	7250	MPa	ISO 178
Flexural Stress			

--	141	MPa	ISO 178
Yield, 50.0 mm Span ⁸	139	MPa	ASTM D790
Break, 50.0 mm Span ⁹	139	MPa	ASTM D790
Flexural Strain at Break ¹⁰	1.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-40°C	190	J/m	ASTM D256
23°C	150	J/m	ASTM D256
-40°C ¹¹	18	kJ/m ²	ISO 180/1A
23°C ¹²	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
-40°C	330	J/m	ASTM D4812
23°C	300	J/m	ASTM D4812
-40°C ¹³	22	kJ/m ²	ISO 180/1U
23°C ¹⁴	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	8.68	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	89.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁵	90.0	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	2.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.2E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.55 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	50.0 to 60.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	205 to 235	°C	
Middle Temperature	210 to 245	°C	
Front Temperature	215 to 245	°C	
Processing (Melt) Temp	220 to 255	°C	
Mold Temperature	35.0 to 65.0	°C	
Back Pressure	0.150 to 0.300	MPa	
Screw Speed	12 to 40	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		

5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	2 mm/min
11.	80*10*4
12.	80*10*4
13.	80*10*4
14.	80*10*4
15.	80*10*4 mm

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