

LNP™ STAT-KON™ DEF13 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* Stat-kon* DEF13 is a compound based on Polycarbonate resin containing Glass Fiber, Glass Fiber, Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* Stat-Kon* Compound DCF-1004

Product reorder name: DEF13

General Information			
UL YellowCard	E121562-101283876		
Filler / Reinforcement	Glass\Carbon Fiber		
Features	Electrically Conductive		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792, ISO 1183
Water Absorption (24 hr)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	17900	MPa	ASTM D638
--	12400	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	61.5	MPa	ASTM D638
Yield	44.0	MPa	ISO 527-2/5
Break	119	MPa	ASTM D638
Break	12.0	MPa	ISO 527-2/5
Tensile Elongation			
Break	4.0	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
--	9450	MPa	ASTM D790
-- ³	18500	MPa	ISO 178
Flexural Stress			
--	211	MPa	ISO 178
Break, 50.0 mm Span ⁴	159	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C ⁵	14	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C, 6.40 mm)	510	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, Unannealed, 3.20 mm	147	°C	ASTM D648
0.45 MPa, Unannealed, 100 mm Span ⁶	148	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 100 mm Span ⁷	144	°C	ISO 75-2/Ae
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	2.0 mm/min		
4.	1.3 mm/min		
5.	80*10*4		
6.	120*10*4 mm		
7.	120*10*4 mm		

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