

LNP™ THERMOCOMP™ 2C003 compound

Ethylene Tetrafluoroethylene Copolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 2C003 is a compound based on ETFE resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound FP-EC-1003

Product reorder name: 2C003

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.73	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	11700	MPa	ASTM D638
Tensile Strength			ASTM D638
Break	90.3	MPa	
Break ²	90.0	MPa	
Tensile Elongation			ASTM D638
Break	4.9	%	
Break ³	4.9	%	
Flexural Modulus			ASTM D790
50.0 mm Span ⁴	11000	MPa	
--	11000	MPa	
Flexural Strength			ASTM D790
--	138	MPa	
Break, 50.0 mm Span ⁵	138	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	350	J/m	ASTM D256
Unnotched Izod Impact (23°C)	1200	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	208	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	120 to 150	°C	
Drying Time	4.0	hr	
Rear Temperature	280 to 300	°C	
Middle Temperature	300 to 325	°C	
Front Temperature	325 to 340	°C	

Processing (Melt) Temp	315	°C
Mold Temperature	90.0 to 120	°C
Back Pressure	0.170 to 0.340	MPa
Screw Speed	30 to 60	rpm

NOTE		
1.	50 mm/min	
2.	Type I, 5.0 mm/min	
3.	Type I, 5.0 mm/min	
4.	1.3 mm/min	
5.	1.3 mm/min	

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Recommended distributors for this material

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