

LNP™ THERMOCOMP™ 2F005 compound

Ethylene Tetrafluoroethylene Copolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 2F005 is a fluoropolymer compound based on ETFE containing 25% Glass Fiber.

Also known as: LNP* THERMOCOMP* Compound FP-EF-1005

Product reorder name: 2F005

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.87	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.010	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6190	MPa	ASTM D638
--	5680	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	61.0	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2/5
Break ³	59.0	MPa	ASTM D638
Break	60.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	7.0	%	ASTM D638
Yield	6.6	%	ISO 527-2/5
Break ⁵	8.2	%	ASTM D638
Break	7.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	5480	MPa	ASTM D790
-- ⁷	5200	MPa	ISO 178
Flexural Stress	87.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	530	J/m	ASTM D256
23°C ⁸	45	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C ⁹	91	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	21.6	J	ASTM D3763
--	10.7	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	248	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	232	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	190	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	132	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.1E-5	cm/cm/°C	
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.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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