

LNP™ THERMOCOMP™ 2X98703 compound

Ethylene Tetrafluoroethylene Copolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 2X98703 is a compound based on ETFE Copolymer resin containing Proprietary Filler(s).

Also known as: LNP* THERMOCOMP* Compound PDX-FP-E-98703

Product reorder name: 2X98703

General Information			
Filler / Reinforcement	Proprietary		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.73	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40	%	
Across Flow : 24 hr	1.0	%	
Water Absorption			
24 hr, 50% RH	0.010	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14200	MPa	ASTM D638
--	11200	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	101	MPa	ASTM D638
Yield	95.0	MPa	ISO 527-2/5
Break ³	98.0	MPa	ASTM D638
Break	88.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.6	%	ASTM D638
Yield	5.0	%	ISO 527-2/5
Break ⁵	5.9	%	ASTM D638
Break	5.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	10600	MPa	ASTM D790
-- ⁷	10400	MPa	ISO 178
Flexural Stress			
--	135	MPa	ISO 178
Yield, 50.0 mm Span ⁸	143	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	410	J/m	ASTM D256
23°C ⁹	34	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	480	J/m	ASTM D4812
23°C ¹⁰	88	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	20.0	J	ASTM D3763
--	8.00	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 ¹¹	239	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	214	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	187	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	1.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.2E-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.	5.0 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.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

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