

LNP™ THERMOCOMP™ 2X00858 compound

Perfluoroethylene Propylene Copolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 2X00858 is a compound based on FEP resin containing proprietary fillers.

Also known as: LNP* THERMOCOMP* Compound PDX-FP-F-00858

Product reorder name: 2X00858

General Information			
Filler / Reinforcement	Proprietary		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	2.16	g/cm ³	
--	2.17	g/cm ³	
Water Absorption (24 hr, 50% RH)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1010	MPa	ASTM D638
--	939	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	14.0	MPa	ASTM D638
Yield	14.0	MPa	ISO 527-2/5
Break ³	12.0	MPa	ASTM D638
Break	13.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.5	%	ASTM D638
Yield	6.1	%	ISO 527-2/5
Break ⁵	9.3	%	ASTM D638
Break	9.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	797	MPa	ASTM D790
-- ⁷	873	MPa	ISO 178
Flexural Stress			
--	19.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	20.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	680	J/m	ASTM D256
23°C ⁹	32	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	980	J/m	ASTM D4812

23°C ¹⁰	85	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	79.3	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	80.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	57.4	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	61.0	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
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.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

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