

LNP™ THERMOCOMP™ 2X04505 compound

Ethylene Tetrafluoroethylene Copolymer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP 2X04505 is a compound based on ETFE resin containing Proprietary Filler(s).

Also known as: LNP* THERMOCOMP* Compound PDX-FP-E-04505

Product reorder name: 2X04505

General Information			
Filler / Reinforcement	Proprietary		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.75	g/cm ³	ASTM D792
--	1.74	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	1.0 to 1.2	%	ASTM D955
Across Flow : 24 hr	1.8 to 2.0	%	ASTM D955
Across Flow : 24 hr	1.9	%	ISO 294-4
Flow : 24 hr	1.1	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	15200	MPa	ASTM D638
--	11600	MPa	ISO 527-2/1
Tensile Strength			
Yield	87.6	MPa	ASTM D638
Yield ²	87.5	MPa	ASTM D638
Yield	89.0	MPa	ISO 527-2
Break	85.5	MPa	ASTM D638
Break ³	85.5	MPa	ASTM D638
Break	88.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.5	%	ASTM D638
Yield ⁴	4.5	%	ASTM D638
Yield	4.7	%	ISO 527-2
Break	4.8	%	ASTM D638
Break ⁵	4.8	%	ASTM D638
Break	4.9	%	ISO 527-2
Flexural Modulus			
50.0 mm Span ⁶	10300	MPa	ASTM D790
--	10300	MPa	ASTM D790

--	18800	MPa	ISO 178
Flexural Stress	319	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	270	J/m	ASTM D256
23°C ⁷	24	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ⁸	59	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	18.8	J	ASTM D3763
--	8.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	255	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	251	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	222	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	207	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.7E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	7.8E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	1.3E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	1.2E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	282 to 293	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316	°C	
Mold Temperature	93.3 to 121	°C	
Back Pressure	0.172 to 0.344	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.	80*10*4		
8.	80*10*4		

9.	80*10*4 mm
10.	80*10*4 mm

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