

LNP™ THERMOCOMP™ WX05505 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WX05505 is a compound based on PBT resin containing Proprietary Filler(s).

Also known as: LNP* THERMOCOMP* Compound W-5000

Product reorder name: WX05505

General Information			
Filler / Reinforcement	Proprietary		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2510	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	54.0	MPa	ASTM D638
Yield	52.0	MPa	ISO 527-2/5
Break ²	36.0	MPa	ASTM D638
Break	43.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	3.0	%	ASTM D638
Yield	3.2	%	ISO 527-2/5
Break ⁴	31	%	ASTM D638
Break	25	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	2480	MPa	ASTM D790
-- ⁶	2390	MPa	ISO 178
Flexural Strength ⁷ (Yield, 50.0 mm Span)	84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	51	J/m	ASTM D256
23°C ⁸	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1500	J/m	ASTM D4812

23°C ⁹	100	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	30.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	149	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	139	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	56.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	55.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.8E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	Type I, 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.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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