

LNP™ THERMOCOMP™ WX15003 compound

Polybutylene Terephthalate

SABIC Innovative Plastics Europe

Message:

LNP* THERMOCOMP* WX15003 is a 45 % glass/mineral filled, UV stabilized, PBT injection moulding resin.

General Information			
Filler / Reinforcement	Glass\Mineral,45% Filler by Weight		
Additive	UV Stabilizer		
Features	Good UV Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.83	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (265°C/1.2 kg)	11.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.20 to 0.60	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	145	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	7400	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	76.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	3.5	kJ/m ²	
23°C	4.5	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	35	kJ/m ²	
23°C	35	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-30°C	4.5	kJ/m ²	
23°C	5.0	kJ/m ²	
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	31	kJ/m ²	
23°C	33	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			

0.45 MPa, Unannealed, 100 mm Span	220	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	180	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	220	°C	ISO 306/A50
--	200	°C	ISO 306/B50, ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 80°C	3.0E-5	cm/cm/°C	
Flow : 23 to 150°C	2.5E-5	cm/cm/°C	
Transverse : 23 to 80°C	7.5E-5	cm/cm/°C	
Transverse : 23 to 150°C	8.0E-5	cm/cm/°C	
Thermal Conductivity	0.33	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
50 Hz	3.60		
60 Hz	3.60		
1 MHz	3.50		
Dissipation Factor			IEC 60250
50 Hz	1.0E-3		
60 Hz	1.0E-3		
1 MHz	0.013		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index (3.20 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0 to 60.0	°C	
Rear Temperature	230 to 250	°C	
Middle Temperature	240 to 260	°C	
Front Temperature	250 to 270	°C	
Nozzle Temperature	245 to 270	°C	
Processing (Melt) Temp	255 to 280	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		

3.	80*10*4 sp=62mm
4.	80*10*4 sp=62mm
5.	80*10*4
6.	80*10*4
7.	120*10*4 mm

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