

LNP™ THERMOCOMP™ WX05456 compound

Thermoplastic Polyester

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WX05456 is a compound based on PBT containing Mineral.

Also known as: LNP* THERMOCOMP* Compound 9760

Product reorder name: WX05456

General Information			
UL YellowCard	E121562-101283790		
Filler / Reinforcement	Mineral		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.55	g/cm ³	ASTM D792
--	1.54	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.5	%	
Across Flow : 24 hr	1.5	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4230	MPa	ASTM D638
--	4650	MPa	ISO 527-2/1
Tensile Strength			
Break	48.3	MPa	ASTM D638
Break	47.0	MPa	ISO 527-2
Tensile Elongation			
Break	1.8	%	ASTM D638
Break	1.4	%	ISO 527-2
Flexural Modulus			
--	4390	MPa	ASTM D790
--	4200	MPa	ISO 178
Flexural Strength			
--	90.3	MPa	ASTM D790
--	88.2	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	27	J/m	ASTM D256

23°C ²	2.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	200	J/m	ASTM D4812
23°C ³	15	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.23	J	ASTM D3763
--	0.610	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	172	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	163	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	71.1	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	82.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	5.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.7E-5	cm/cm/°C	
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm, Testing by SABIC)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	232 to 243	°C	
Middle Temperature	249 to 260	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	249 to 277	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

