

LNP™ THERMOCOMP™ WX05502 compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* WX05502 is a compound based on Polyester, TP resin containing Flame Retardant, Glass Fiber, Mineral. Added features of this material include: Flame Retardant.

Also known as: LNP* THERMOCOMP* Compound 9750

Product reorder name: WX05502

General Information			
UL YellowCard	E121562-101283789		
Filler / Reinforcement	Glass\Mineral		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.81	g/cm ³	
--	1.80	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13200	MPa	ASTM D638
--	11700	MPa	ISO 527-2/1
Tensile Strength			
Break ²	90.0	MPa	ASTM D638
Break	85.0	MPa	ISO 527-2/5
Tensile Strain			
Yield	1.3	%	ISO 527-2/5
Break ³	1.4	%	ASTM D638
Break	1.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	10900	MPa	ASTM D790
-- ⁵	11400	MPa	ISO 178
Flexural Stress			
--	142	MPa	ISO 178
Break, 50.0 mm Span ⁶	141	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	19	J/m	ASTM D256
23°C ⁷	4.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	340	J/m	ASTM D4812
23°C ⁸	22	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.60	J	ASTM D3763
--	1.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	221	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	217	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	205	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	197	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.0E-5	cm/cm/°C	
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 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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Recommended distributors for this material

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