

LNP™ THERMOCOMP™ WF0039U compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP WF0039U is a compound based on PBT resin containing 15% Glass Fiber. Added features of this grade include: Flame Retardant and UV Stabilized.

Also known as: LNP* THERMOCOMP* Compound WF-1003 FR-S UV

Product reorder name: WF0039U

General Information			
UL YellowCard	E121562-101358192		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Additive	UV Stabilizer		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.58	g/cm ³	ASTM D792
--	1.57	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7240	MPa	ASTM D638
--	7080	MPa	ISO 527-2/1
Tensile Strength			
Break ²	95.0	MPa	ASTM D638
Break	95.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.4	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	6060	MPa	ASTM D790
-- ⁵	6360	MPa	ISO 178
Flexural Stress			
--	145	MPa	ISO 178
Break, 50.0 mm Span ⁶	137	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ⁷	5.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	340	J/m	ASTM D4812
23°C ⁸	20	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.70	J	ASTM D3763
--	1.40	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	215	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	212	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	194	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	185	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.1E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	232 to 243	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	249 to 260	°C	
Processing (Melt) Temp	243 to 260	°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.	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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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

