

LNP™ THERMOCOMP™ YF003S compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP YF003S is a compound based on Polyester Elastomer containing Glass Fiber. Added features include; Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound YF-1003 HS NAT

Product reorder name: YF003S

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.54	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	43.0	MPa	
Break	42.0	MPa	
Tensile Strain (Yield)	15	%	ISO 527-2/50
Flexural Modulus ¹	1200	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	28	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	85	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	163	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	121	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.4E-5	cm/cm/°C	
Transverse : 23 to 60°C	2.0E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	182 to 193	°C	

Middle Temperature	204 to 216	°C
Front Temperature	227 to 238	°C
Processing (Melt) Temp	216 to 238	°C
Mold Temperature	26.7 to 54.4	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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