

LNP™ THERMOCOMP™ 9X10312 compound

Polyamide

SABIC Innovative Plastics Asia Pacific

Message:

9X10312 is 50% glass fiber reinforced, impact modified nylon material. High modulus, high flow and good ductility, Low Moisture Absorption.

General Information			
UL YellowCard	E207780-101337256		
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Impact Modifier		
Features	Ductile		
	High Flow		
	Impact Modified		
	Low Moisture Absorption		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm³	ASTM D792
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	15.0	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.12	%	
Across Flow : 3.20 mm	0.44	%	
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	15000	MPa	ASTM D638
Tensile Strength ² (Break)	212	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.8	%	ASTM D638
Flexural Modulus	13000	MPa	ASTM D790
Flexural Strength	310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	16	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	150	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	12.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	250	°C	ASTM D648
Electrical	Nominal Value		Test Method

Dielectric Constant (1.10 GHz)	4.00	ASTM E57-83
Dissipation Factor (1.10 GHz)	0.010	ASTM E57-83
Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.15 to 0.25	%
Rear Temperature	266 to 277	°C
Middle Temperature	282 to 293	°C
Front Temperature	293 to 304	°C
Processing (Melt) Temp	282 to 304	°C
Mold Temperature	93.3 to 110	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm
NOTE		
1.	5.0 mm/min	
2.	Type I, 5.0 mm/min	
3.	Type I, 5.0 mm/min	
4.	80*10*3 sp=62mm	

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