

LNP™ THERMOCOMP™ UX06032 compound

Polyphthalamide

SABIC Innovative Plastics Europe

Message:

LNP* THERMOCOMP* UX06032 is a compound based on Polyphthalamide resin containing Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant, Non-Brominated & Non-Chlorinated Flame Retardant, Heat Stabilized.

Also known as: LNP* THERMOCOMP* Compound UX06032-BK83015

Product reorder name: UX06032

General Information			
UL YellowCard	E45329-101284058		
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.20 to 0.30	%	Internal Method
Water Absorption (23°C, 24 hr)	0.23	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11400	MPa	ISO 527-2/1
Tensile Stress (Break)	130	MPa	ISO 527-2/5
Tensile Strain (Break)	2.1	%	ISO 527-2/5
Flexural Modulus ²	9900	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 64.0 mm Span	275	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	258	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.1E-5	cm/cm/°C	

Transverse : 23 to 60°C	5.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Glow Wire Flammability Index (1.50 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	825	°C	
1.60 mm	825	°C	
3.00 mm	850	°C	
Injection	Nominal Value	Unit	
Drying Temperature	120 to 140	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	280 to 300	°C	
Middle Temperature	290 to 310	°C	
Front Temperature	295 to 315	°C	
Processing (Melt) Temp	305 to 315	°C	
Mold Temperature	130 to 150	°C	
Back Pressure	0.200 to 0.300	MPa	
Screw Speed	40 to 80	rpm	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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