

LNP™ THERMOCOMP™ UF0037W compound

Polyphthalamide
SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* UF13HWZ270 is a compound based on Polyphthalamide resin containing Glass Fiber. Added features of this material include: Heat Stabilized, Non-Brominated & Non-Chlorinated Flame Retardant.

Also known as: LNP* THERMOCOMP* Compound UF-1003 HW Z270

Product reorder name: UF0037W

General Information	
UL YellowCard	E121562-101284113
Filler / Reinforcement	Glass Fiber
Additive	Heat Stabilizer
Features	Bromine Free
	Chlorine Free
	Flame Retardant
	Heat Stabilized

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.33	g/cm ³	ASTM D792
--	1.34	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.50 to 0.90	%	
Across Flow : 24 hr	1.5 to 1.9	%	
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8480	MPa	ASTM D638
--	8300	MPa	ISO 527-2/1
Tensile Strength			
Yield	113	MPa	ASTM D638
Yield	106	MPa	ISO 527-2
Break	113	MPa	ASTM D638
Break	106	MPa	ISO 527-2
Tensile Elongation			
Yield	2.3	%	ASTM D638
Yield	2.1	%	ISO 527-2
Break	2.3	%	ASTM D638
Break	2.1	%	ISO 527-2
Flexural Modulus			

--	7580	MPa	ASTM D790
--	6300	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	174	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	4.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	340	J/m	ASTM D4812
23°C ³	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.20	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	271	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	270	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.2E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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