

LNPTM THERMOCOMPTM COMPOUND UX08325

DESCRIPTION

LNP THERMOCOMP UX08325 is PPA base glass fiber filled compounds, good for LDS (Laser direct structuring) application. Additional feature is high heat.

TYPICAL PROPERTY VALUES

Revision 20191217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	135	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 5 mm/min	10880	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	197	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	194	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	9770	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	125	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	11080	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	194	MPa	ISO 178
Flexural Strain, break, 2 mm/min	2	%	ISO 178
Flexural Modulus, 2 mm/min	9610	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	351	J/m	ASTM D 4812
Izod Impact, notched, 23°C	31	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	263	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.4E-05	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	261	°C	ISO 75/Af
PHYSICAL			
Density	1.55	g/cm ³	ASTM D 792
Mold Shrinkage, flow	0.41	%	SABIC method
Mold Shrinkage, xflow	0.52	%	SABIC method
Moisture Absorption (23°C / 50% RH)	0.53	%	ISO 62
ELECTRICAL			
Relative Permittivity, 1 GHz	4.2	-	ASTM D 150
Dissipation Factor, 1 GHz	0.01	-	ASTM D 150
FLAME CHARACTERISTICS⁽¹⁾			
UL Yellow Card Link	E207780-101334270	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Maximum Moisture Content	0.15	%	
Melt Temperature	315 – 330	°C	
Front - Zone 3 Temperature	325 – 340	°C	
Middle - Zone 2 Temperature	315 – 325	°C	
Rear - Zone 1 Temperature	310 – 320	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.