LNP™ THERMOCOMP™ COMPOUND UF0067V

DESCRIPTION

LNP THERMOCOMP UF0067V is PPA base glass fiber filled compounds, good for LDS (Laser direct structuring) applications.
Additional feature is high heat such that articles made of it can survive SMT process.

TYPICAL PROPERTY VALUES

Revision 20191217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Modulus, 5 mm/min	9500	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	104	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.6	%	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	8500	MPa	ASTM D 790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	150	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	34	J/m	ASTM D 256
Izod Impact, unnotched, 23°C	300	J/m	ASTM D 4812
THERMAL			
HDT, 0.45 MPa, 3.2 mm	276	°C	ASTM D 648
HDT, 1.82 MPa, 3.2 mm	255	°C	ASTM D 648
Relative Temp Index, Elec [1]	65	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	65	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	65	°C	UL 746B
PHYSICAL			
Specific Gravity	1.45	-	ASTM D 792
Mold Shrinkage, flow	0.3	%	SABIC method
Mold Shrinkage, xflow	0.5	%	SABIC method
Water Absorption, 23°C/24hrs	0.05	%	ISO 62-1
ELECTRICAL			
Dielectric Constant, 1.1 GHz	3.560	-	SABIC method
Dissipation Factor, 1.1 GHz	0.009	-	SABIC method
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-103351790	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.4	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4 – 7	hrs	
Melt Temperature	290 – 330	°C	
Nozzle Temperature	300 – 320	°C	
Front - Zone 3 Temperature	300 – 320	°C	
Middle - Zone 2 Temperature	280 – 300	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Mold Temperature	120 – 150	°C	

© 2019 Copyright by SABIC. All rights reserved

(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.

© 2019 Copyright by SABIC. All rights reserved