LNP™ THERMOCOMP™ COMPOUND EX11414

EX11414

DESCRIPTION

LNP* THERMOCOMP* EX11414 is a compound based on Polyetherimide containing 20% Carbon Fiber. Added feature of this grade is: FAR25.853 Compliant.

TYPICAL PROPERTY VALUES

Revision 20191213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	230	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 5 mm/min	17380	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	308	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	14600	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	598	J/m	ASTM D 4812
Izod Impact, notched, 23°C	78	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.33	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.23	%	ASTM D 570
Poisson's Ratio	0.44	-	ASTM E 132
ELECTRICAL			
Surface Resistivity	1.E+04 – 1.E+05	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	380 – 400	°C	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	380 – 400	°C	
Mold Temperature	165 – 180	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	50 – 100	rpm	
Injection Speed	40 – 70	mm/s	

© 2019 Copyright by SABIC. All rights reserved

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