

# LNP™ THERMOCOMP™ COMPOUND 2C003

FP-EC-1003  
REGION AMERICAS

## DESCRIPTION

LNP THERMOCOMP 2C003 is a compound based on ETFE resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive.

## TYPICAL PROPERTY VALUES

Revision 20170913

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, break	90	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	90	MPa	ASTM D 638
Tensile Strain, break	4.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	11710	MPa	ASTM D 638
Flexural Stress	137	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	137	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	11030	MPa	ASTM D 790
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	1238	J/m	ASTM D 4812
Izod Impact, notched, 23°C	352	J/m	ASTM D 256
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D 648
<b>PHYSICAL</b>			
Density	1.73	g/cm <sup>3</sup>	ASTM D 792
<b>MECHANICAL PROPERTIES</b>			
Flexural modulus	11030	MPa	ISO 178/1A
<b>INJECTION MOLDING</b>			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Melt Temperature	315	°C	
Front - Zone 3 Temperature	325 – 340	°C	
Middle - Zone 2 Temperature	300 – 325	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	280 – 300	°C	
Mold Temperature	90 – 120	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

## 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.