

# LNP™ THERMOCOMP™ COMPOUND 2X95787

PDX-FP-E-95787  
REGION AMERICAS

## DESCRIPTION

LNP THERMOCOMP 2X95787 is a compound based on ETFE Copolymer resin containing Proprietary Filler(s).

## TYPICAL PROPERTY VALUES

Revision 20170913

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, yield	48	MPa	ASTM D 638
Tensile Stress, break	45	MPa	ASTM D 638
Tensile Strain, yield	9.3	%	ASTM D 638
Tensile Strain, break	13.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	42740	MPa	ASTM D 638
Tensile Stress, yield	47	MPa	ISO 527
Tensile Stress, break	45	MPa	ISO 527
Tensile Strain, yield	8.6	%	ISO 527
Tensile Strain, break	12.8	%	ISO 527
Tensile Modulus, 1 mm/min	4050	MPa	ISO 527
Flexural Stress	66	MPa	ISO 178
Flexural Modulus	4000	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	1335	J/m	ASTM D 4812
Izod Impact, notched, 23°C	480	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	19	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	83	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	24	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	222	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	107	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	203	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	91	°C	ISO 75/Af
<b>PHYSICAL</b>			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.84	g/cm <sup>3</sup>	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.8	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	2.4	%	ISO 294
Density	1.83	g/cm <sup>3</sup>	ISO 1183
<b>MECHANICAL PROPERTIES</b>			
Flexural modulus	33780	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	330 – 345	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	280 – 295	°C	
Mold Temperature	95 – 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.