

**Product Texts**

LNP THERMOCOMP WX15003 compound is based on Polybutylene Terephthalate (PBT) resin containing 45 % glass fiber/mineral. Added features of this grade include: UV stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	11	cm <sup>3</sup> /10min	ISO 1133
Temperature	265	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	8000	MPa	ISO 527
Stress at break	100	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	7400	MPa	ISO 178
Charpy impact strength, +23°C	35	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	35	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	4	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	33	kJ/m <sup>2</sup>	ISO 180/1U
Izod impact strength, -30°C, 4mm	31	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	4	kJ/m <sup>2</sup>	ISO 180/1A
Ball indentation hardness	145	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, A	220	°C	ISO 306
Vicat softening temperature, B	200	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	200	°C	ISO 306
Thermal Conductivity	0.33	W/(m K)	DIN 52616
Glow Wire Flammability Index (GWFI)	750	°C	IEC 60695-2-12
GWFI - thickness tested (1)	3.2	mm	-

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.5	-	IEC 62631-2-1
Dissipation factor, 1MHz	130	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	1830	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	255 - 280	°C	-
Mold temperature	60 - 100	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	230 - 250	°C	-
Zone 2	240 - 260	°C	-
Zone 3	250 - 270	°C	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific