LNP™ THERMOCOMP™ Compound 9X02540

(PC+PET)-GF20 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP 9X02540 compound is based on Polycarbonate / Polyester blend containing 20% glass fiber. Added features of this grade include: Flame Retardant, Improved Impact.

UL Yellow Card Link E121562-101284697

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.25**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.4**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**7240**	MPa	ISO 527
Yield stress	**103**	MPa	ISO 527
Yield strain	**2.1**	%	ISO 527
Stress at break	**103**	MPa	ISO 527
Strain at break	**2.1**	%	ISO 527
Flexural modulus	**6530**	MPa	ISO 178
Flexural strength	**149**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**38**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**6**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**7650**	MPa	ASTM D 638
Tensile Strength at Yield	**108**	MPa	ASTM D 638
Tensile Strength at Break	**108**	MPa	ASTM D 638
Elongation at Yield	**2.1**	%	ASTM D 638
Elongation at Break	**2.1**	%	ASTM D 638
Flexural Modulus	**7030**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**51**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**558**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**120**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**133**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
DTUL @ 66 psi	**130**	°C	ASTM D 648
DTUL @ 264 psi	**122**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.14**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.1**	%	ASTM D 570
Density	**1470**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**305 - 325**	°C	-
Mold temperature	**80 - 110**	°C	-
Zone 1	**295 - 305**	°C	-
Zone 2	**310 - 320**	°C	-
Zone 3	**320 - 330**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Additives
Flame retarding agent

Special Characteristics
Flame retardant

Regional Availability
North America, Europe, Asia Pacific