

LNP™ STAT-KON™ Compound 9X02785 - Americas

(PC+PBT)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON 9X02785 compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend containing proprietary fillers. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.55	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.65	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2760	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	2.9	%	ISO 527
Stress at break	52	MPa	ISO 527
Strain at break	3.1	%	ISO 527
Flexural modulus	2790	MPa	ISO 178
Flexural strength	96	MPa	ISO 178
Izod impact strength, +23°C, 4mm	149	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2870	MPa	ASTM D 638
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	52	MPa	ASTM D 638
Elongation at Yield	4.3	%	ASTM D 638
Elongation at Break	7.8	%	ASTM D 638
Flexural Modulus	2920	MPa	ASTM D 790
Izod Impact notched, 1/8 in	63	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2160	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	103	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	114	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	68	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	68	E-6/K	ASTM D 696
DTUL @ 66 psi	117	°C	ASTM D 648
DTUL @ 264 psi	106	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E7	Ohm	ASTM D 257
Volume Resistivity	1E7	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.14	%	Sim. to ISO 62
Water Absorption, 24hr	0.09	%	ASTM D 570
Density	1270	kg/m ³	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

Regional Availability

North America

Special Characteristics

Increased electrical conductivity