LNP™ STAT-LOY™ Compound 9X03508

(PPE+PA*) Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-LOY 9X03508 compound is based on Polyphenylene Ether (PPE) / Nylon 6/6 blend containing proprietary fillers. Added features of this grade include: Permanently Anti-Static, Flame Retardant, High Impact.

UL Yellow Card Link E207780-103093512

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**4470**	MPa	ISO 527
Yield stress	**59**	MPa	ISO 527
Yield strain	**2.4**	%	ISO 527
Stress at break	**58**	MPa	ISO 527
Strain at break	**2.8**	%	ISO 527
Flexural modulus	**4000**	MPa	ISO 178
Flexural strength	**96**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**26**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**4**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**4820**	MPa	ASTM D 638
Tensile Strength at Yield	**53**	MPa	ASTM D 638
Tensile Strength at Break	**53**	MPa	ASTM D 638
Elongation at Yield	**2.1**	%	ASTM D 638
Elongation at Break	**2.2**	%	ASTM D 638
Flexural Modulus	**3440**	MPa	ASTM D 790
Flexural Strength	**82**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**37**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**427**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**179**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**218**	°C	ISO 75-1/-2
Burning behav. at thickness h	**V-1**	class	IEC 60695-11-10
Thickness tested	**2.4**	mm	-
ASTM Data			
DTUL @ 66 psi	**230**	°C	ASTM D 648
DTUL @ 264 psi	**186**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**1E12**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1310**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.9**	%	ASTM D 570
Density	**1310**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**200 - 230**	°C	-
Mold temperature	**40 - 55**	°C	-
Zone 1	**200 - 210**	°C	-
Zone 2	**210 - 220**	°C	-
Zone 3	**220 - 230**	°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