NORYL™ Resin PX9406 - Americas

(PPE+PS) Saudi Basic Industries Corporation (SABIC)

Product Texts

Nonbrominated, nonchlorinated, flame retarded. Improved productivity and reliability. 252F HDT. UL94 V-0 rated. Electrical applications.

UL Yellow Card Link E121562-221212

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**75**	MPa	ASTM D 638
Tensile Strength at Break	**55**	MPa	ASTM D 638
Elongation at Yield	**9.5**	%	ASTM D 638
Elongation at Break	**18**	%	ASTM D 638
Izod Impact notched, 1/8 in	**160**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**1120**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**2.5**	mm	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	**775**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**1**	mm	-
Glow Wire Ignition Temperature (GWIT)	**775**	°C	IEC 60695-2-13
GWIT - thickness tested (3)	**3**	mm	-
ASTM Data			
Vicat Temperature	**150**	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**18.8**	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	**0.0052**	-	ASTM D 150
Dissipation Factor, 1 MHz	**0.0026**	-	ASTM D 150
Dielectric Constant, 60 Hz	**2.57**	-	ASTM D 150
Dielectric Constant, 1 MHz	**2.49**	-	ASTM D 150
Surface Resistivity	**>1E15**	Ohm	ASTM D 257
Volume Resistivity	**>1E15**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1110**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**105 - 110**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**275 - 305**	°C	-
Mold temperature	**70 - 100**	°C	-
Zone 1	**245 - 295**	°C	-
Zone 2	**255 - 300**	°C	-
Zone 3	**265 - 305**	°C	-
Screw speed	**20 - 100**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Additives
Flame retarding agent

Special Characteristics
Flame retardant

Applications
Automotive

Regional Availability
North America