

NORYL™ Resin PX9406K - Asia
(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL PX9406K resin may be suitable for consumer electronics applications. Flame retardant used is non-halogenated. UL94 V0 at 1.5 mm, 5VB at 2 mm, and 5VA at 2.5 mm. RTI (impact) = 105 C

UL Yellow Card Link [E207780-101401128](https://www.ul.com/yellow-card/E207780-101401128)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2550	MPa	ISO 527
Yield stress	67	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	52	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2420	MPa	ISO 178
Charpy notched impact strength, +23°C	13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	5	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2700	MPa	ASTM D 638
Tensile Strength at Yield	66	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	5.7	%	ASTM D 638
Elongation at Break	45	%	ASTM D 638
Flexural Modulus	2650	MPa	ASTM D 790
Izod Impact notched, 1/8 in	170	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	100	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	111	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 10N	144	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	134	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	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)	800	°C	IEC 60695-2-13
GWIT - thickness tested (2)	2	mm	-
Glow Wire Ignition Temperature (GWIT)	800	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-
ASTM Data			
DTUL @ 66 psi	128	°C	ASTM D 648
DTUL @ 264 psi	113	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	250	-	IEC 60112
ASTM Data			
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

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Other properties	Value	Unit	Test Standard
Density	1100	kg/m ³	ISO 1183
Density	1100	kg/m ³	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

Regional Availability

Asia Pacific