

NORYL™ Resin PCN2910 - Asia

(PPE+PS)-(GF+P)35

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL™ PCN2910 resin is a 35% glass/mica filled blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This high modulus, injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of 5VB at 2.3mm, V0 at 3mm, and V1 at 1.5mm. NORYL PCN2910 resin exhibits good dimensional stability, low specific gravity, and Low Warpage. It is an excellent candidate for printer chassis applications where high modulus and tight tolerance molding are required.

UL Yellow Card Link [E45587-237063](https://www.ul.com/yellow-card/E45587-237063)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10600	MPa	ISO 527
Yield stress	106	MPa	ISO 527
Strain at break	1.3	%	ISO 527
Flexural modulus	9130	MPa	ISO 178
Charpy impact strength, +23°C	20	kJ/m ²	ISO 179/1eU
Izod impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11370	MPa	ASTM D 638
Tensile Strength at Yield	123	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Izod Impact notched, 1/8 in	68	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	331	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	129	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.3	mm	-
ASTM Data			
Vicat Temperature	140	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1380	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	295 - 315	°C	-
Mold temperature	75 - 105	°C	-
Zone 1	260 - 305	°C	-
Zone 2	270 - 310	°C	-
Zone 3	280 - 315	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

Asia Pacific