

NORYL™ Resin N190 - Asia

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL™ N190 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of 5VA at 3mm and V0 at 1.5mm along with UL746C Outdoor Suitability rating of F1. NORYL N190 resin exhibits high impact strength, dimensional stability, hydrolytic stability, and very low moisture absorption. This material is an excellent candidate for a variety of applications such as solar frames, unattended power supply (UPS) inverter/charger, indoor and outdoor electrical enclosures / housings / connectors, and wall plates / sockets / switches. *This grade is also referred to as NORYL N1900 in several regions.

UL Yellow Card Link [E45587-237048](https://www.ul.com/yellow-card/E45587-237048)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	29.8	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Flexural Modulus	2260	MPa	ASTM D 790
Flexural Strength	68	MPa	ASTM D 790
Izod Impact notched, 1/8 in	283	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-0 1.5	class mm	IEC 60695-11-10 -
Burning behav. at thickness h Thickness tested	V-2 0.8	class mm	IEC 60695-11-10 -
Burning behav. 5V at thickness h Thickness tested	5VA 2.8	class mm	IEC 60695-11-20 -

Other properties	Value	Unit	Test Standard
Density	1080	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Chemical Resistance

Hydrolytically Stable

Additives

Flame retarding agent

Applications

Automotive

Special Characteristics

Flame retardant

Regional Availability

Asia Pacific