

NORYL PPX™ Resin PPX640F - Americas

(PPE+PP)-GF40

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL PPX™ 640F resin is a 40% glass reinforced alloy of polyphenylene ether (PPE) + polypropylene (PP). This injection moldable grade is NSF 61 certified and exhibits high elongation and stiffness along with temperature performance, impact resistance, hydrolytic and dimensional stability. NORYL PPX640F resin is an excellent candidate for copper and brass replacement in water management applications such as water filtration systems, boiler systems, and heat exchangers.

UL Yellow Card Link [E121562-221228](https://www.ul.com/yellowcard/E121562-221228)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	1.3	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	95	MPa	ASTM D 638
Tensile Strength at Break	95	MPa	ASTM D 638
Elongation at Break	6.4	%	ASTM D 638
Flexural Modulus	8310	MPa	ASTM D 790
Izod Impact notched, 1/8 in	106	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	96	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	576	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	158	°C	ASTM D 648
DTUL @ 264 psi	146	°C	ASTM D 648
Vicat Temperature	163	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1300	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	65 - 75	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 305	°C	-
Mold temperature	40 - 65	°C	-
Zone 1	245 - 290	°C	-
Zone 2	250 - 290	°C	-
Zone 3	255 - 300	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America