

NORYL™ Resin WM220A Asia

(PPE+PS)-GF20

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL WM220A resin is a 20% glass fiber reinforced blend of polyphenylene ether (PPE) + Polystyrene (PS). This injection moldable grades exhibits excellent long term hydrolytic stability, very low water absorption, heat / hot water resistance and is an excellent candidate for a various water management applications such as pump housings, impellers and valves. See NORYL FE1520PW resin for NSF /ANSI 61 and global potable water compliant version.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	9.4	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Flexural Modulus	5640	MPa	ASTM D 790
Flexural Strength	150	MPa	ASTM D 790
Rockwell Hardness	R 124	-	ASTM D 785
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	141	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E16	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.06	%	ASTM D 570
Density	1230	kg/m ³	ASTM D 792

Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Features

Amorphous, Low Warpage

Chemical Resistance

Hydrolytically Stable

Certifications

Food contact, Food approval NSF 51, Drinking water contact NSF 61

Applications

Building Construction

Regional Availability

Asia Pacific