

NORYL™ Resin HFM3015P - Asia

(PPE+PS)-(GF+MX)30

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL HFM3015P resin is a 30% glass fiber and mineral reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of V1 at 1.5mm. NORYL HFM3015P resin exhibits exceptional dimensional stability, high stiffness and strength, strong electrical performance, very low moisture absorption, and hydrolytic stability. This material is an excellent candidate for internal structural parts such as chassis.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	48.3	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.00275	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Flexural Modulus	7640	MPa	ASTM D 790
Flexural Strength	137	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Other Standards^{S1}			
Tensile Strength at Yield	98	MPa	Producer Method
Elongation at Break	4	%	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	110	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.06	%	ASTM D 570
Density	1320	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	260 - 300	°C	-
Mold temperature	60 - 90	°C	-
Zone 1	230 - 260	°C	-
Zone 2	240 - 280	°C	-
Zone 3	260 - 300	°C	-
Nozzle temperature	260 - 300	°C	-
Screw speed	40 - 60	rpm	-
Back pressure	0.5 - 1.2	MPa	-

Characteristics**Processing**

Injection Molding

Chemical Resistance

Hydrolytically Stable

Additives

Flame retarding agent

Applications

IT / Business Machine, Electrical and Electronical

Special Characteristics

Flame retardant, Halogen-free

Regional Availability

Asia Pacific