

NORYL™ Resin HM3020H - Asia

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

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL HM3020H resin is a 30% glass fiber and mineral reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This high flow, injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame ratings of 5VB and V1. NORYL HM3020H resin exhibits good dimensional stability, Low warpage, and low moisture absorption. It is an excellent candidate for printer chassis and components.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	17.7	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.00275	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Flexural Modulus	7940	MPa	ASTM D 790
Flexural Strength	147	MPa	ASTM D 790
Rockwell Hardness	M 88	-	ASTM D 785
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Other Standards^[S]			
Tensile Strength at Yield	115	MPa	Producer Method
Elongation at Break	5	%	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	125	°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	1330	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	275 - 305	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	250 - 270	°C	-
Zone 2	260 - 280	°C	-
Zone 3	270 - 290	°C	-
Nozzle temperature	275 - 305	°C	-
Screw speed	40 - 60	rpm	-
Back pressure	0.5 - 1.2	MPa	-

Characteristics**Processing**

Injection Molding

Features

Low Warpage

Additives

Flame retarding agent

Applications

IT / Business Machine, Electrical and Electronical

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Special Characteristics

Flame retardant, Halogen-free

Regional Availability

Asia Pacific