

NORYL™ RESIN HMC3008V

DESCRIPTION

NORYL HMC3008V compound is based on Polyphenylene Ether (PPE) resin containing carbon fiber, glass fiber and minerals (total 26%). Added features of this grade include: Electrically Conductive, Non-Halogenated Flame Retardant, Dimensional Stability.

GENERAL INFORMATION	
Features	Flame Retardant, Electrically Conductive, Non Cl/Br flame retardant, Dimensional stability, High stiffness/Strength
Fillers	Carbon Fiber, Glass Fiber, Mineral
Polymer Types	Polyphenylene Ether + PS (PPE+PS)
Processing Techniques	Injection Molding
INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Flexural Stress, yld, 2.6 mm/min, 100 mm span	155	MPa	ASTM D790
Flexural Modulus, 2.6 mm/min, 100 mm span	9719	MPa	ASTM D790
Tensile Stress, yld, Type I, 10 mm/min	120.67	MPa	SABIC - Japan Method
Tensile Strain, brk, Type I, 10 mm/min	6.6	%	SABIC - Japan Method
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	66.4	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 6.4 mm, unannealed	133.4	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Specific Gravity	1.259	-	ASTM D792
Melt Flow Rate, 300°C/5.0 kgf	10.6	g/10 min	ASTM D1238
POLYMER PROPERTIES ⁽¹⁾			
Ash content	17.82	Wt. %	-
ELECTRICAL ⁽¹⁾			
Surface Resistivity ⁽²⁾	4.2E+4	Ω	ASTM D257
FLAME CHARACTERISTICS ⁽³⁾			
UL Yellow Card Link	E45587-237042	-	-
UL Recognized, 94V-1 Flame Class Rating	≥1.5	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	≥3	mm	UL 94
INJECTION MOLDING ⁽⁴⁾			
Drying Temperature	120	°C	
Drying Time	2 – 4	Hrs	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	80 – 110	°C	
Melt Temperature	290 – 310	°C	
Nozzle Temperature	290 – 310	°C	
Front - Zone 3 Temperature	280 – 300	°C	
Middle - Zone 2 Temperature	270 – 290	°C	
Rear - Zone 1 Temperature	270 – 290	°C	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurement meets requirements as specified in ASTM D4496.
- (3) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses, colors and regions. For details, please see the UL Yellow Card.
- (4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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