

SABIC Innovative Plastics LNP STAT-KON Noryl_FMC3008A PPE+HIPS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

LNP* Stat-kon* Noryl_FMC3008A compound is a 30% carbon fiber/glass/mineral filled, static dissipative, foamable resin. UL94 V1 rated.

Property values at 20% weight reduction, 0.250" wall.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-NorylFMC3008A-PPEHIPS-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|-----------------------|------------------------|
| Specific Gravity | 1.02 g/cc | 1.02 g/cc | foam molded; ASTM D792 |
| | 1.28 g/cc | 1.28 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0015 - 0.0025 cm/cm | 0.0015 - 0.0025 in/in | SABIC Method |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Linear Mold Shrinkage, Transverse | 0.0015 - 0.0035 cm/cm | 0.0015 - 0.0035 in/in | SABIC Method |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------|---------------------|-------------------|
| Tensile Strength, Yield | 48.0 MPa | 6960 psi | ASTM D638 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| Elongation at Break | 3.5 % | 3.5 % | ASTM D638 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| Flexural Yield Strength | 102 MPa | 14800 psi | 6.4 mm; ASTM D790 |
| Flexural Modulus | 7.79 GPa | 1130 ksi | 6.4 mm; ASTM D790 |
| Izod Impact, Unnotched | 1.01 J/cm | 1.89 ft-lb/in | ASTM D4812 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|---------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 116 Â°C | 241 Â°F | unannealed; ASTM D648 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Deflection Temperature at 1.8 MPa (264 psi) | 108 Â°C | 226 Â°F | unannealed; ASTM D648 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| UL RTI, Electrical | | | UL 746B |

| Thermal Properties | 50.0 Å°C Metric | 122 Å°F English | Comments |
|-----------------------------------|---------------------------|----------------------------|----------|
| UL RTI, Mechanical with Impact | 50.0 Å°C | 122 Å°F | UL 746B |
| UL RTI, Mechanical without Impact | 50.0 Å°C | 122 Å°F | UL 746B |
| Flammability, UL94 | V-0 @Thickness 3.98 mm | V-0 @Thickness 0.157 in | UL 94 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Volume Resistivity | 10000 ohm-cm | 10000 ohm-cm | ASTM D257 |
| Surface Resistance | 1e+05 | 1e+05 | ASTM D257 |

| Descriptive Properties | Value | Comments |
|---------------------------------------|-----------------------|----------|
| FOAM - ELECTRICAL 6.4 mm Wt Reduction | 20% | |
| FOAM - Flame Class Minimum Density | 1.15g/cm ³ | |
| FOAM - IMPACT 6.4 mm Wt Reduction | 20% | |
| FOAM - MECHANICAL 6.4 mm Wt Reduction | 20% | |
| FOAM - PHYSICAL 6.4mm Wt Reduction | 20% | |
| FOAM - THERMAL 6.4mm Wt Reduction | 20% | |

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