

Sumitomo Bakelite North America RX® 1-501N Mineral Filled Diallyl Phthalate

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Cast, Mineral Filler , Filled/Reinforced Thermoset

Material Notes:

Mineral filled diallyl ortho-phthalate molding compound which meets the requirements of ASTM D5948 Type MDG. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-1-501N-Mineral-Filled-Diallyl-Phthalate.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|---------------------------|--------------------------------|
| Density | 1.80 g/cc | 0.0650 lb/in ³ | Relative Density; ASTM D792 |
| Linear Mold Shrinkage | 0.0030 - 0.0060 cm/cm | 0.0030 - 0.0060 in/in | Compression Molding; ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|----------------|-----------------------|
| Tensile Strength at Break | 55.2 MPa | 8010 psi | ASTM D638 |
| Flexural Strength | 110 MPa | 16000 psi | At Rupture; ASTM D790 |
| Flexural Modulus | 11.7 GPa | 1700 ksi | ASTM D790 |
| Compressive Strength | 145 MPa | 21000 psi | ASTM D695 |
| Izod Impact, Notched | 0.240 J/cm | 0.450 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|----------------------|
| CTE, linear, Parallel to Flow | 25.0 $\mu\text{m}/\text{m}\cdot\text{C}$ | 13.9 $\mu\text{in}/\text{in}\cdot\text{F}$ | ASTM E-831 |
| | @Temperature 20.0 $^{\circ}\text{C}$ | @Temperature 68.0 $^{\circ}\text{F}$ | |
| Maximum Service Temperature, Air | 130 $^{\circ}\text{C}$ | 266 $^{\circ}\text{F}$ | UL 746B |
| Deflection Temperature at 1.8 MPa (264 psi) | 166 $^{\circ}\text{C}$ | 331 $^{\circ}\text{F}$ | As molded; ASTM D648 |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|----------------|
| Dielectric Constant | 3.6 | 3.6 | Wet; ASTM D150 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |

| Electrical Properties | ^{4.2} Metric | ^{4.2} English | Comments ^{D150} |
|----------------------------|-----------------------|------------------------|------------------------------------|
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dielectric Strength | 15.8 kV/mm | 401 kV/in | 60Hz, Step-by-Step, wet; ASTM D149 |
| Dissipation Factor | 0.013 | 0.013 | wet; ASTM D150 |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| | 0.014 | 0.014 | wet; ASTM D150 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Arc Resistance | 140 sec | 140 sec | ASTM D495 |
| Comparative Tracking Index | >= 600 V | >= 600 V | IEC 112 |

| Descriptive Properties | Value | Comments |
|------------------------|----------------------------------|----------|
| Color | Black, Blue, Brown, Green, Red | |
| Form | Granular | |
| Main Filler | Mineral | |
| Molding Method | Compression, transfer, injection | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China