

## Premix Premi-Glas® 1282-32 VE Glass Reinforced Vinyl Ester SMC (discontinued \*\*)

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Vinyl Ester , Vinyl Ester Sheet Molding Compound

### Material Notes:

**Description:** Premi-Glas® 1282-32 VE SMC is an enhanced high strength glass reinforced vinyl ester molding compound formulated for under-the-hood automotive applications. Key features and benefits: Improved stiffness at elevated temperatures relative to the Premi-Glas® 1281-32VE SMC  
Designed for compression molding for optimal strength on large-span covers  
Excellent resistance to automotive chemicals and fluids, and to salt spray  
Replaces cast metals for reduced Noise, Vibration, and Harshness, plus molded-in color  
Excellent dimensional stability and creep resistance  
Outstanding thermal properties and elevated temperature modulus retention  
Market: Composite PowerTrain Information provided by Premix.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Premix-Premi-Glas-1282-32-VE-Glass-Reinforced-Vinyl-Ester-SMC-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1282-32-VE-Glass-Reinforced-Vinyl-Ester-SMC-nbspdiscontinued-.php)

| Physical Properties   | Metric        | English       | Comments  |
|-----------------------|---------------|---------------|-----------|
| Specific Gravity      | 1.77 g/cc     | 1.77 g/cc     | ASTM D792 |
| Water Absorption      | 0.20 %        | 0.20 %        | ASTM D570 |
| Linear Mold Shrinkage | 0.00020 cm/cm | 0.00020 in/in | ISO 2577  |

| Mechanical Properties      | Metric    | English       | Comments             |
|----------------------------|-----------|---------------|----------------------|
| Tensile Strength, Ultimate | 110 MPa   | 16000 psi     | ASTM D638            |
| Flexural Strength          | 221 MPa   | 32000 psi     | ASTM D790-1          |
| Flexural Modulus           | 10.3 GPa  | 1500 ksi      | Tangent; ASTM D790-1 |
| Compressive Strength       | 310 MPa   | 45000 psi     | ASTM D695            |
| Poissons Ratio             | 0.33      | 0.33          | ISO 527              |
| Izod Impact, Notched       | 8.54 J/cm | 16.0 ft-lb/in | ASTM D256            |

| Thermal Properties              | Metric               | English               | Comments                |
|---------------------------------|----------------------|-----------------------|-------------------------|
| CTE, linear                     | 36.0 µm/m-°C         | 20.0 µin/in-°F        | Z-direction; ASTM D696  |
|                                 | @Temperature 20.0 °C | @Temperature 68.0 °F  |                         |
| CTE, linear, Transverse to Flow | 27.0 µm/m-°C         | 15.0 µin/in-°F        | XY-direction; ASTM D696 |
|                                 | @Temperature 20.0 °C | @Temperature 68.0 °F  |                         |
| Specific Heat Capacity          | 1.51 J/g-°C          | 0.360 BTU/lb-°F       | ASTM D1269E             |
| Thermal Conductivity            | 0.300 W/m-K          | 2.08 BTU-in/hr-ft²-°F | ASTM D1269E             |

| Deflection Temperature at 1.8 MPa<br>(204 psi)<br>Thermal Properties | Metric | English | Comments      |
|----------------------------------------------------------------------|--------|---------|---------------|
| Glass Transition Temp, Tg                                            | 188 °C | 370 °F  | ASTM D4065-01 |

| Electrical Properties | Metric     | English   | Comments  |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength   | 15.0 kV/mm | 380 kV/in | ASTM D149 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)  
Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)  
Tel : +86 021-51131842  
Mobile : +86 13061808058  
Skype : lookpolymers  
Address : United North Road 215,Fengxian District, Shanghai City,China