

# Generic DAP - Glass Fiber

Diallyl Phthalate

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic DAP - Glass Fiber  
This information is provided for comparative purposes only.

| General Information                                     |                                 |                   |             |
|---------------------------------------------------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass fiber reinforced material |                   |             |
| Physical                                                | Nominal Value                   | Unit              | Test Method |
| Specific Gravity                                        | 1.82 - 1.91                     | g/cm <sup>3</sup> | ASTM D792   |
| Bulk Factor                                             | 2.3 - 6.0                       |                   | ASTM D1895  |
| Molding Shrinkage - Flow (23°C)                         | 0.20 - 0.31                     | %                 | ASTM D955   |
| Water Absorption (Saturation, 23°C)                     | 0.25 - 0.27                     | %                 | ASTM D570   |
| Mechanical                                              | Nominal Value                   | Unit              | Test Method |
| Tensile Strength                                        |                                 |                   | ASTM D638   |
| Yield, 23°C                                             | 48.3 - 55.2                     | MPa               | ASTM D638   |
| 23°C                                                    | 75.3 - 83.0                     | MPa               | ASTM D638   |
| Flexural Modulus (23°C)                                 | 11700 - 12500                   | MPa               | ASTM D790   |
| Flexural Strength                                       |                                 |                   | ASTM D790   |
| 23°C                                                    | 123 - 131                       | MPa               | ASTM D790   |
| Yield, 23°C                                             | 96.5 - 104                      | MPa               | ASTM D790   |
| Compressive Strength (23°C)                             | 149 - 188                       | MPa               | ASTM D695   |
| Impact                                                  | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 27 - 240                        | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value                   | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 204 - 274                       | °C                | ASTM D648   |
| CLTE - Flow                                             |                                 |                   |             |
| --                                                      | 1.8E-5 - 2.5E-5                 | cm/cm/°C          | ASTM D696   |
| --                                                      | 1.8E-5 - 2.1E-5                 | cm/cm/°C          | ASTM E831   |
| Thermal Conductivity (23°C)                             | 0.28 - 0.36                     | W/m/K             | ASTM C177   |
| RTI Elec                                                | 130 - 132                       | °C                | UL 746      |
| RTI Imp                                                 | 130 - 132                       | °C                | UL 746      |
| RTI                                                     | 130 - 132                       | °C                | UL 746      |
| Electrical                                              | Nominal Value                   | Unit              | Test Method |
| Dielectric Strength (23°C)                              | 14 - 18                         | kV/mm             | ASTM D149   |
| Dielectric Constant (23°C)                              | 3.50 - 4.40                     |                   | ASTM D150   |
| Dissipation Factor (23°C)                               | 8.8E-3 - 0.016                  |                   | ASTM D150   |
| Arc Resistance                                          | 130 - 180                       | sec               | ASTM D495   |
| Flammability                                            | Nominal Value                   | Unit              | Test Method |

|                        |               |      |            |
|------------------------|---------------|------|------------|
| Oxygen Index           | 26 - 50       | %    | ASTM D2863 |
| Injection              | Nominal Value | Unit |            |
| Processing (Melt) Temp | 113 - 150     | °C   |            |
| Injection instructions |               |      |            |

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