

Dow Questra® QA804 High Heat Syndiotactic Polystyrene, 30% Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS) , Syndiotactic Polystyrene (SPS) with Glass or Carbon Fiber

Material Notes:

QUESTRA® Crystalline Polymers are semi-crystalline engineering thermoplastic resins produced from styrene monomer using a proprietary metallocene catalyst system. These syndiotactic polymers are very different from conventional styrenics in structure, and properties, exhibiting excellent heat resistance with a melting temperature of 270.C, excellent moisture and chemical resistance together with a unique combination of exceptional electrical properties, toughness and processability. QUESTRA crystalline polymers are typically used as moldings, films, and fibers in Electronic, Electrical, Automotive, Consumer and Industrial, Filtration, Optical/photographic film and Specialty fiber/non-woven markets. QUESTRA QA804 is a 30% glass filled, impact modified, polymer exhibiting moderate temperature resistance suitable for Consumer and Industrial applications.Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Questra-QA804-High-Heat-Syndiotactic-Polystyrene-30-Glass-Filled-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------|
| Density | 1.22 g/cc | 0.0441 lb/in ³ | ASTM Data |
| Water Absorption | 0.010 % | 0.010 % | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|-----------|
| Tensile Strength, Ultimate | 92.0 MPa | 13300 psi | ASTM Data |
| Tensile Strength, Yield | 92.0 MPa | 13300 psi | ASTM Data |
| Tensile Modulus | 7.58 GPa | 1100 ksi | ASTM Data |
| Izod Impact, Notched | 0.960 J/cm | 1.80 ft-lb/in | ASTM Data |

| Thermal Properties | Metric | English | Comments |
|---------------------------------------------|----------------------|----------------------|-----------------------|
| CTE, linear, Parallel to Flow | 29.8 µm/m-°C | 16.6 µin/in-°F | ASTM data |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 260 °C | 500 °F | Unannealed; ASTM Data |
| Deflection Temperature at 1.8 MPa (264 psi) | 204 °C | 399 °F | Unannealed; ASTM Data |
| Vicat Softening Point | 263 °C | 505 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|----------|
| Dielectric Strength | 21.8 kV/mm | 554 kV/in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

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