

Dow Questra® WA551 High Heat Syndiotactic Polystyrene, 40% 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 WA551 is a 40% glass filled polymer suitable for Automotive Electronic Systems.Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Questra-WA551-High-Heat-Syndiotactic-Polystyrene-40-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM Data
Water Absorption	0.010 %	0.010 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	132 MPa	19100 psi	ASTM Data
Tensile Strength, Yield	132 MPa	19100 psi	ASTM Data
Tensile Modulus	11.2 GPa	1620 ksi	ASTM Data
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.1 µm/m-°C	9.50 µin/in-°F	ASTM data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	263 °C	505 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	Unannealed; ASTM Data
Vicat Softening Point	263 °C	505 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.6 kV/mm	599 kV/in	

Electrical Properties

Metric

English

Comments

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