

Chevron Phillips Ryton® PR09-60 Polyphenylene Sulfide Compound (discontinued **)**Categories:** [Polymer](#); [Thermoplastic](#); [Polyphenylene Sulfide \(PPS\)](#); [Polyphenylene Sulfide \(PPS\)](#); [Molded](#)**Material** Polyphenylene Sulfide Compound**Notes:**



Ryton® PR09-60 is pelletized unfilled high molecular weight polyphenylene sulfide resin suitable for extrusion or injection molding.

Comments: Test specimen molding conditions: Stock Temperature, 315-345°C; Mold Temperature, 135°C; ASTM Values Converted to SI Units

Data provided by Chevron Phillips Chemical Company LP.

Solvay Specialty Polymers has acquired the Ryton product line. This product was discontinued prior to the acquisition and is listed under the Chevron Phillips name for historical purposes.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Yield Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Unnotched	13.0 J/cm	24.4 ft-lb/in	ASTM D256
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+12 ohm @Temperature 90.0 °C	1.00e+12 ohm @Temperature 194 °F	95% RH, 48 hrs
Dielectric Constant 	3.1 @Frequency 1000 Hz	3.1 @Frequency 1000 Hz	ASTM D150
	3.1 @Frequency 1e+6 Hz	3.1 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149
Dissipation Factor 	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	ASTM D150
	0.0020 @Frequency 1e+6 Hz	0.0020 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	50 sec	50 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	UL 746A
Thermal Properties	Metric	English	Comments
CTE, linear	53.0 µm/m-°C @Temperature -50.0 - 50.0 °C	29.4 µin/in-°F @Temperature -58.0 - 122 °F	Axial; ASTM E831
	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ASTM D648
Flammability, UL94	V-0	V-0	

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Materials flagged as discontinued (D) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our [Advanced Search](#) (registration required) may exclude discontinued materials from search results.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.