

RPVC stands for Rigid Polyvinyl Chloride. It is a type of PVC that is rigid and has a higher hardness compared to flexible PVC. It is commonly used in applications where stiffness and durability are required, such as pipes, fittings, profiles, and construction materials. The color of RPVC can vary depending on the specific formulation and application, but it is commonly available in white or gray colors.

### Chemical Description

Description	Value
Material Type	Semi-Crystalline Thermoplastic
Chemical Name	RPVC Rigid Polyvinyl Chloride
Additives	Unfilled
Color	Gray
UV Resistant	No

### Physical Properties

Property	Maximum Unless Range is Specified
Density,g/cm <sup>3</sup>	1.42
Water Absorption, 24 hrs, Immersion,% by wt.	<0.01
Coefficient of Linear Thermal Expansion, x10 <sup>-5</sup> /k	8
Softening Point Temp,°C	90
Thermal Conductivity,W/m*K	0.159
Surface Restivity,Ohm	1,013
Dielectric Strength,kV/mm	39

### Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Stress at Yield,MPa	58
Elasticity Modulus,MPa	3
Elongation at Break	15%
Hardness Shore	85
Notched Izod Impact Strength,kJ/m <sup>2</sup>	4

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.