

## PVC Type 1 grey - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PVC (Polyvinyl chloride)

### Colour

grey

### Density

1.38 g/cm<sup>3</sup>

### Main features

- easy to machine
- excellent chemical resistance
- good mechanical properties
- high purity

### Target Industries

- chemical plant engineering
- semiconductor technology
- chemical technology

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Modulus of elasticity (tensile test)	@ 73°F	410,000	psi	ASTM D 638	
Tensile strength at yield	@ 73°F	7,300	psi	ASTM D 638	
Flexural strength	@ 73°F	15,000	psi	ASTM D 638	
Impact strength (Izod)	@ 73°F	0.9	ft-lbs/in	ASTM D 256	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Deflection temperature	@ 264 PSI	158	°F	ASTM D 648	
Service temperature	Long Term	140	°F	-	
Thermal expansion (CLTE)		2.9*10 <sup>-5</sup>	in/in/°F	-	
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Moisture absorption	@ 73°F @ 24 hrs	0.02	%	ASTM D 570	
Flammability (UL94)		V0		-	

→ Resin specification:  
NONE  
Shapes specification:  
ASTM D6263-11

→ US version PVC Type 1 grey rod datasheet manufactured by George Fischer Harvel LLC

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