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

Chemical Designation
PVC (Polyvinyl chloride)

Colour
grey

Density
1.38 g/cm^3

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

Target Industries
- chemical plant engineering
- semiconductor technology
- chemical technology

Mechanical properties	*condition*	*value*	*unit*	*test method*	*comment*
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	
Thermal properties	*condition*	*value*	*unit*	*test method*	*comment*
Deflection temperature	@ 264 PSI	158	°F	ASTM D 648	
Service temperature	Long Term	140	°F	-	
Thermal expansion (CLTE)		$2.9*10^{-5}$	in/in/°F	-	
Other properties	*condition*	*value*	*unit*	*test method*	*comment*
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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