

## GEHR Plastics Corzan® PVC-C Polyvinylchloride

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Uncompounded

### Material Notes:

Polyvinyl chloride is a flame retardant material with an exceptional chemical resistance and also with lower stress cracking. PVC-U shows high mechanical strength, tensile strength and the continuous operating temperature is from -15°C to 60°C. It can also be easily solvent, cemented and welded. Properties include: High mechanical strength, tensile strength and hardness Good insulation properties for electronics High chemical resistance Self-extinguishing Low water absorption Easy to varnish and glue Low impact strength Limited weather resistance Applications include: Pumps and valve body Gaskets Bearing cages Pipe lines Hand pump pipes Brush basic body Parts in the dental medicine Seat strips Pipes for the mounting of kerfs Lamp box PVC-C has high rigidity, strength, and hardness at increased temperatures.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_GEHR-Plastics-Corzan-PVC-C-Polyvinylchloride.php](http://www.lookpolymers.com/polymer_GEHR-Plastics-Corzan-PVC-C-Polyvinylchloride.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ISO 1183
Water Absorption	0.20 %	0.20 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	DIN 53505
Ball Indentation Hardness	150 MPa	21800 psi	ISO 2039
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Elongation at Yield	3.0 %	3.0 %	ISO 527
Modulus of Elasticity	2.50 GPa	363 ksi	ISO 527
Flexural Strength	90.0 MPa	13100 psi	3.5%; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	ISO 179
Coefficient of Friction	0.60	0.60	DIN 53375

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	DIN 53752
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	85.0 Â°C	185 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	102 Â°C	216 Â°F	ISO 75
Vicat Softening Point	105 Â°C	221 Â°F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-15.0 Â°C	5.00 Â°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	VDE 0303
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	VDE 0303
Dielectric Constant	3.0	3.0	DIN 53483
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	20.0 - 40.0 kV/mm	508 - 1020 kV/in	VDE 0303
Dielectric Loss Index	0.010	0.010	DIN 53483
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	KB; IEC 60112

Descriptive Properties	Value	Comments
Acid Resistance	yes	
Aromatic Resistance	limited	
Bondability	yes	
Chemical Resistance	DIN 8061	
CKW Resistance	no	
Color	Light Grey	
Hydrocarbonate Resistance	yes	
Hydroxide Resistance	yes	
Ketone Resistance	limited	
Physiological indifference according	no	

Descriptive Properties	Value	Comments
UV Stabilization	no	

## Contact Songhan Plastic Technology Co.,Ltd.

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