

## PolyOne Geon™ 81520 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

### Material Notes:

Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-81520-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-81520-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Spiral Flow	81.3 cm	32.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	ASTM D2240
Tensile Strength, Yield	96.5 MPa	14000 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
Poissons Ratio	0.41	0.41	ASTM E132
Shear Modulus	2.69 GPa	390 ksi	Calculated
Izod Impact, Notched	1.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.06 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	3.20 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	5.99 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 µm/m-°C	12.2 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C @Thickness 6.35 mm	172 °F @Thickness 0.250 in	Annealed; ASTM D648
UL RTI, Electrical	50.0 °C	122 °F	UL 746
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746

Thermal Properties <small>UL FTI, Mechanical without Impact</small>	Metric <small>30 FT °C</small>	English <small>12 FT °F</small>	Comments <small>UL 94B</small>
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	ALL; UL 94
	5VA @Thickness 1.50 mm	5VA @Thickness 0.0591 in	ALL; UL 94

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 °C	390 - 410 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 61	
Features	General Purpose	
	High Flow	
Filler / Reinforcement	Glass Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Fluid Handling	
	General Purpose	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China