

## PolyOne Geon™ L6105 natural 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-L6105-natural-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-L6105-natural-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	15 sec; ASTM D2240
Tensile Strength, Yield	54.8 MPa	7950 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	4.72 GPa	685 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	95.1 MPa	13800 psi	ASTM D790
Flexural Modulus	4.54 GPa	658 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.806 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	53.4 J/cm @Temperature 23.0 °C	0.100 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	53.4 J/cm @Temperature 23.0 °C	0.100 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 µm/m-°C	25.6 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	78.9 °C @Treatment Temp. 60.0 °C	174 °F @Treatment Temp. 140 °F	Annealed; ASTM D648
	77.2 °C @Treatment Temp. 50.0 °C, Thickness 3.18 mm	171 °F @Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	Annealed; ASTM D648

Thermal Properties	@Treatment Temp. Metric	@Treatment Temp. 140 English	Comments
	73.9 °C	165 °F	
	@Treatment Temp. 50.0 °C, Thickness 3.18 mm	@Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 - 3.00 mm	V-0 @Thickness 0.0591 - 0.118 in	natural; UL 94

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 193 °C	360 - 379 °F	

Descriptive Properties	Value	Comments
Features	High Stiffness	
	Low CLTE	
Forms	Cube	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	12474	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	General Purpose	
	Profiles	

## Contact Songhan Plastic Technology Co.,Ltd.

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