

PolyOne Geon™ Vinyl Packaging 2121 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-Vinyl-Packaging-2121-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	0.801 g/cc	0.0289 lb/in ³	ASTM D1505

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Yield	41.4 MPa	6000 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.31 GPa	335 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	73.1 MPa	10600 psi	ASTM D790
Flexural Modulus	2.58 GPa	374 ksi	ASTM D790
Izod Impact, Notched	7.70 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	14.4 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	57.2 °C @Thickness 3.18 mm	135 °F @Thickness 0.125 in	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	67 % @Thickness 0.851 mm, Wavelength 400 nm	67 % @Thickness 0.0335 in, Wavelength 400 nm	Internal Method
	80 % @Thickness 0.851 mm, Wavelength 700 nm	80 % @Thickness 0.0335 in, Wavelength 700 nm	Internal Method

Processing Properties	Metric	English	Comments
Mold Temperature	199 - 213 °C	390 - 415 °F	Blow Molding

Descriptive Properties	Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	
Appearance	Clear/Transparent	
Features	Food Contact Acceptable	
	High Gloss	
	High Impact Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Blow Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Bottles	
	Packaging	

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