

PolyOne Geon™ Vinyl Packaging 2020 LO-GC Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Geon® 2020 LO-GC is a glass clear pellet compound designed for water bottle and other low odor applications that require FDA sanctioned materials. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Packaging-2020-LO-GC-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/in³	ASTM D1505

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Yield	45.7 MPa	6630 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.36 GPa	342 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	2.72 GPa	395 ksi	ASTM D790
Izod Impact, Notched	10.0 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	18.7 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)	61.7 °C @Thickness 3.18 mm	143 °F @Thickness 0.125 in	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	60 % @Thickness 0.851 mm, Wavelength 400 nm	60 % @Thickness 0.0335 in, Wavelength 400 nm	Internal Method
	85 % @Thickness 0.851 mm, Wavelength 700 nm	85 % @Thickness 0.0335 in, Wavelength 700 nm	Internal Method

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Mold Temperature	188 - 199 °C	370 - 390 °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	
	Low to No Odor	
	Low to No Taste	
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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