

PolyOne Geon™ HC 8210 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Geon HC 8210 is a high flow, high impact resistance rigid grade offering enhanced chemical resistance for medical device housing applications. It is RoHS compliant with UL V0 and 5VA ratings. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-HC-8210-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	111.76 cm	44.000 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Yield	41.4 MPa	6000 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	35 %	35 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.28 GPa	331 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	66.9 MPa	9700 psi	ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	2.70 J/cm	5.06 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Injection Molded; ASTM D256A
	6.40 J/cm	12.0 ft-lb/in	
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.2 °C	162 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	75.0 °C	167 °F	

Thermal Properties	Metric @ Thickness 6.35 mm	English @ Thickness 0.250 in	Comments Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.9 °C	156 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	72.8 °C	163 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
UL RTI, Electrical	90.0 °C	194 °F	UL 746
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL 746
Flammability, UL94	V-0	V-0	All Colors
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	ALL; UL 94
	@Thickness 1.40 mm	@Thickness 0.0551 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VA	5VA	All Colors
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	
	NSF 61	
Features	High Flow	
	High Impact Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Regional Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Europe Value	Comments
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Medical Device Housings	

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