

PolyOne Geon™ Vinyl Rigid Extrusion L8230 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

The Cell Classification was determined using the notched Izod test with injection molded samples. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-L8230-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	15 sec; ASTM D2240
Tensile Strength, Yield	46.7 MPa	6770 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.60 GPa	377 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	86.7 MPa	12600 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Izod Impact, Notched	0.910 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.70 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded, Flow; ASTM D256A
Dart Drop Total Energy	23.1 J/cm @Temperature 23.0 °C	0.0433 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	23.1 J/cm @Temperature 23.0 °C	0.0433 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 µm/m-°C	42.2 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	41.1 °C @Thickness 3.18 mm	106 °F @Thickness 0.125 in	Unannealed; ASTM D648

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

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Transparent	Comments
Forms	Pellets		
Generic Material	PVC, Rigid		
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)		
Processing Method	Extrusion		
PVC Cell Classification	10341		ASTM D1784
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	Handles		
	Profiles		

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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