

PolyOne Geon™ L4605 Red 7640 Polyvinyl Chloride, Semi-Rigid (PVC, Semi-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-L4605-Red-7640-Polyvinyl-Chloride-Semi-Rigid-PVC-Semi-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	15 sec; ASTM D2240
Tensile Strength, Yield	23.8 MPa	3450 psi	5.1 mm/min; ASTM D638
Tensile Modulus	1.82 GPa	264 ksi	5.1 mm/min; ASTM D638
Flexural Yield Strength	50.7 MPa	7350 psi	13 mm/min; ASTM D790
Flexural Modulus	1.73 GPa	251 ksi	13 mm/min; ASTM D790
Izod Impact, Notched	0.400 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.749 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256
Dart Drop Total Energy	70.3 J/cm @Temperature 23.0 °C	0.132 ft-lb/mil @Temperature 73.4 °F	extruded profile, Procedure A, C.125; ASTM D4226
	72.1 J/cm @Temperature 23.0 °C	0.135 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.0 µm/m-°C	40.6 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	41.1 °C @Thickness 3.18 mm	106 °F @Thickness 0.125 in	Unannealed; ASTM D648
	43.9 °C @Thickness 3.18 mm	111 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	36.1 °C @Thickness 3.18 mm	97.0 °F @Thickness 0.125 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
	@Thickness 3.18 mm	@Thickness 0.125 in	Annealed; ASTM D648

Optical Properties	Metric	English	Comments
Gloss	5.0 - 30 %	5.0 - 30 %	60°; ASTM D523

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

Descriptive Properties	Value	Comments
Features	Medium Gloss	
Forms	Pellets	
Generic Material	PVC, Semi-Rigid	
Generic Name	Polyvinyl Chloride, Semi-Rigid (PVC, Semi-Rigid)	
Processing Method	Coextrusion	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Capstock	
	Outdoor Applications	

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