

PolyOne Geon™ Vinyl Dry Blend E7009 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Recommended for whites and light pastel colors only. Not to be used for darker colors. Physical properties based on Geon E7009 white 1024 lot# UTCX 57572 Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Dry-Blend-E7009-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Yield	47.0 MPa	6820 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	3.07 GPa	445 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	3.32 GPa	482 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.20 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	74.7 J/cm @Temperature 23.0 °C	0.140 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	141 J/cm @Temperature 23.0 °C	0.264 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.0 µm/m-°C	32.8 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	78.3 °C @Treatment Temp. 50.0 °C, Thickness 3.18 mm	173 °F @Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
	79.4 °C @Treatment Temp. 60.0 °C, Thickness 3.18 mm	175 °F @Treatment Temp. 140 °F, Thickness 0.125 in	Annealed; ASTM D648

Thermal Properties (264 psi)	Metric	English	Comments
Stress at Break at 1.8 MPa	73.9 °C	165 °F	Compression Molded, Annealed at 50 deg.C; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
	78.3 °C	173 °F	Compression Molded, Annealed at 60 deg.C; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 210 °C	379 - 410 °F	

Descriptive Properties	Value	Comments
Features	Good Weather Resistance	
	Medium Impact Resistance	
Forms	Powder	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	1-22434-42-0000	ASTM D4216
	12364	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Profiles	
	Windows & Doors	

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