

PolyOne Geon™ Vinyl Flexible R312AE Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Flexible-R312AE-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Volatiles	0.90 % @Thickness 1.91 mm, Temperature 90.0 °C	0.90 % @Thickness 0.0752 in, Temperature 194 °F	Loss; Method A; ASTM D1203B

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	66	66	15 sec; ASTM D2240
Tensile Strength at Break	15.9 MPa	2310 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	370 %	370 %	Type IV, 510 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-37.2 °C	-35.0 °F	ASTM D746
Oxygen Index	28 % @Thickness 3.18 mm	28 % @Thickness 0.125 in	ASTM D2863

Processing Properties	Metric	English	Comments
Melt Temperature	171 - 179 °C	340 - 354 °F	
	188 - 199 °C	370 - 390 °F	

Descriptive Properties	Value	Comments
Additive	Biocide	
	UV Stabilizer	
Change in Mass	0.9%	ASTM D543; 23°C, 120 hr, in Mineral Oil
	0.9%	ASTM D543; 23°C, 120 hr, in Vegetable Oil

Features

Descriptive Properties	Flame Retardant Value	Comments
	Good Chemical Resistance	
	Oil Resistant	
	UV Absorbing	
Forms	Pellets	
Generic Material	PVC, Flexible	
Generic Name	Polyvinyl Chloride, Flexible (PVC, Flexible)	
Processing Method	Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Construction Applications	
	Flooring	

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