

Geon™ Vinyl Flexible R312AE

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Flexible R312AE is a Flexible Polyvinyl Chloride product. It can be processed by extrusion or injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Construction Applications.

Characteristics include:

Chemical Resistant

Flame Retardant

UV Stabilized

General Information			
Additive	Biocide		
	UV Stabilizer		
Features	Flame Retardant		
	Good Chemical Resistance		
	Oil Resistant		
	UV Absorbing		
Uses	Construction Applications		
	Flooring		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	15.9	MPa	ASTM D638
Tensile Elongation ² (Break)	370	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Mass			ASTM D543
23°C, 120 hr, in Mineral Oil	0.90	%	
23°C, 120 hr, in Vegetable Oil	0.90	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-37.2	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	28	%	ASTM D2863

Additional Information	Nominal Value	Unit	Test Method
Volatile Loss ³ (90°C, 1.91 mm)	0.90	%	ASTM D1203B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	188 to 199	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	171 to 179	°C	
NOTE			
1.	Type IV, 510 mm/min		
2.	Type IV, 510 mm/min		
3.	Method A		

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