

Geon™ HTX M6309

Polyvinyl Chloride Alloy

PolyOne Corporation

Message:

Geon™ HTX M6309 is a Polyvinyl Chloride Alloy (PVC Alloy) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ HTX M6309 include outdoor applications, construction applications, electrical/electronic applications and wire & cable.

Characteristics include:

Flame Rated

High Flow

Impact Resistant

General Information			
UL YellowCard	E41877-234302	E41877-234303	
Features	High Flow		
	Low Temperature Impact Resistance		
Uses	Construction Applications		
	Electrical/Electronic Applications		
	Outdoor Applications		
	Telecommunications		
Appearance	Opaque		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Spiral Flow	63.5	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Outdoor Suitability (Gray)	f1		UL 746C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1650	MPa	ASTM D638
Tensile Strength ² (Yield)	29.6	MPa	ASTM D638
Tensile Elongation ³ (Break)	56	%	ASTM D638
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-40°C, 3.18 mm, Injection Molded	210	J/m	
-18°C, 3.18 mm, Injection Molded	590	J/m	
0°C, 3.18 mm, Injection Molded	750	J/m	
23°C, 3.18 mm, Injection Molded	850	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	75.0	°C	
0.45 MPa, Annealed, 6.35 mm	83.9	°C	
1.8 MPa, Unannealed, 6.35 mm	67.8	°C	
1.8 MPa, Annealed, 6.35 mm	73.9	°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.01 mm, ALL	V-0		
3.00 mm, ALL	5VA		
Additional Information	Nominal Value	Unit	
QUV Weatherometer ⁴	0.50	%	
Injection	Nominal Value	Unit	
Drying Temperature	68.3	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	202 to 207	°C	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		
4.	351 Lamp, All Colors, detla E (CIE), 24 hrs light, 300 hrs, No Moisutre		

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