

Geon™ HTX M6829

Polyvinyl Chloride Alloy

PolyOne Corporation

Message:

Geon™ HTX M6829 is a Polyvinyl Chloride Alloy (PVC Alloy) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ HTX M6829 include electrical/electronic applications and wire & cable.

Characteristics include:

Flame Rated

High Flow

Impact Resistant

General Information			
UL YellowCard	E41877-233894		
Features	General Purpose		
	High Flow		
	Medium Impact Resistance		
Uses	Electrical/Electronic Applications		
	General Purpose		
	Telecommunications		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Spiral Flow	86.4	cm	
Molding Shrinkage - Flow	0.40 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2340	MPa	ASTM D638
Tensile Strength ² (Yield)	39.3	MPa	ASTM D638
Tensile Elongation ³ (Break)	20	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	70.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	370	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	82.8	°C	
0.45 MPa, Annealed, 6.35 mm	88.9	°C	
1.8 MPa, Unannealed, 6.35 mm	77.2	°C	

1.8 MPa, Annealed, 6.35 mm	86.1	°C	
Vicat Softening Point	91	°C	
RTI Elec	80.0	°C	UL 746
RTI Imp	70.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm, ALL)	V-1		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	204 to 210	°C	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		

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