

Geon™ HTX L1502

Polyvinyl Chloride Alloy

PolyOne Corporation

Message:

Geon™ HTX L1502 is a polyvinyl chloride alloy (PVC alloy) product. It can be processed by extrusion and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: architectural applications.

Features include:

Impact resistance

Heat resistance

General Information			
Features	Heat resistance, medium		
	Medium impact resistance		
Uses	Building materials		
	Wallboard matrix		
Forms	Cube		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
PVC Cell Classification	12445		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2720	MPa	ASTM D638
Tensile Strength ² (Yield)	48.9	MPa	ASTM D638
Flexural Modulus	2970	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Compression Molded)	51	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	57.8	J/cm	ASTM D4226
23°C ⁴	57.8	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed, 3.18mm ⁵	88.3	°C	ASTM D648
0.45 MPa, annealed, 3.18mm ⁶	83.9	°C	ASTM D648
1.8 MPa, annealed, 3.18mm ⁷	82.8	°C	ASTM D648
1.8 MPa, annealed, 3.18mm ⁸	85.4	°C	ASTM D648
CLTE - Flow	6.6E-5	cm/cm/°C	ASTM D696

Additional Information

Physical properties based on Geon HTX L1502 white 1000.

Extrusion	Nominal Value	Unit
Melt Temperature	193 - 204	°C

NOTE

1.	Type 1, 5.1 mm/min
2.	Type 1, 5.1 mm/min
3.	Procedure A, C.125 Throwing
4.	Procedure B, C.125 Throwing
5.	Annealed at 50 deg.C
6.	Annealed at 60 deg.C
7.	Annealed at 50 deg.C
8.	Annealed at 60 deg.C

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

