Geon™ CPVC LCP02

Chlorinated Polyvinyl Chloride

Key Characteristics

Product Description			
Proprietary product for Clim-A-Tech			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Profiles		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.46	1.46	ASTM D792
PVC Cell Classification	23447	23447	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2] (73°F (23°C))	385000 psi	2650 MPa	ASTM D638
Tensile Strength [2] (Yield, 73°F (23°C))	7780 psi	53.6 MPa	ASTM D638
Flexural Modulus (73°F (23°C))	400000 psi	2760 MPa	ASTM D790
Flexural Strength (Yield, 73°F (23°C))	13200 psi	91.0 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	1.5 ft·lb/in	80 J/m	
73°F (23°C), 0.125 in (3.18 mm) [3]	1.6 ft·lb/in	85 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C), 0.0760 in (1.93 mm) [4]	1.06 in·lb/mil	47.2 J/cm	
73°F (23°C), 0.0760 in (1.93 mm) [5]	2.42 in·lb/mil	108 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Rockwell Hardness	117	117	ASTM D785
Durometer Hardness			ASTM D2240
Shore D	84	84	
Shore D, 15 sec	81	81	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	215 °F	102 °C	
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed	227 °F	108 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	199 °F	92.8 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed	219 °F	104 °C	
CLTE - Flow	3.7E-5 in/in/°F	6.7E-5 cm/cm/°C	ASTM D696

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	388 to 403 °F	198 to 206 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] 0.20 in/min (5.1 mm/min)

[3] Cross-ply

[4] Procedure A

[5] Procedure B

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