

Geon™ CPVC LC510

Chlorinated Polyvinyl Chloride

PolyOne Corporation

Message:

Geon LC510 CPVC is an extrusion grade rigid compound. LC510 offers excellent chemical resistance and is designed for applications where enhanced resistance at elevated temperatures is needed. LC510 demonstrates ease of processing with excellent thermal stability.

General Information			
Uses	Profiles		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, 3.18 mm)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C, 3.18 mm, Compression Molded)	2250	MPa	ASTM D638
Tensile Strength ² (Yield, 23°C, 3.18 mm, Compression Molded)	53.1	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C, 3.18 mm)	24	%	ASTM D638
Flexural Modulus (23°C, 3.18 mm)	2430	MPa	ASTM D790
Flexural Strength (23°C, 3.18 mm)	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Drop Impact Resistance ⁴ (23°C)	66.7	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	106	°C	
0.45 MPa, Annealed, 3.18 mm	111	°C	
1.8 MPa, Unannealed, 3.18 mm	92.8	°C	
1.8 MPa, Annealed, 3.18 mm	105	°C	
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Extrusion	Nominal Value	Unit	
Melt Temperature	191 to 199	°C	
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	Procedure A, C.125		

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