

GEON® Plus LC500

GEON Performance Solutions - Chlorinated Polyvinyl Chloride

Friday, June 2, 2023

General Information

Product Description

GEON® LC500 CPVC is an extrusion grade rigid compound. It is designed for applications where enhanced resistance at elevated temperatures is needed. LC500 demonstrates ease of processing with excellent thermal stability.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Automotive Interior Parts • Profiles		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.52	1.52	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ²	380000 psi	2620 MPa	ASTM D638
Tensile Strength ² (Yield)	7670 psi	52.9 MPa	ASTM D638
Flexural Modulus	396000 psi	2730 MPa	ASTM D790
Flexural Strength	13700 psi	94.5 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	2.5 ft-lb/in	130 J/m	ASTM D256A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	84	84	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	194 °F	89.9 °C	ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	219 °F	104 °C	

Processing Information

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	375 to 395 °F	191 to 202 °C

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)