

AuroraGuard™ AP4042AGR1100

Aurora Material Solutions, LLC - Chlorinated Polyvinyl Chloride

General Information

Product Description

A rigid CPVC pellet compound designed for injection molded fittings and various parts. AP4042 provides superior chemical resistance and high temperature performance.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant	• Good Rigidity	• High Heat Resistance
Uses	• Fittings		
Agency Ratings	• NSF STD-14	• NSF STD-50	• NSF STD-61
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Melt Mass-Flow Rate (MFR) (215°C/21.6 kg)	14	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	431000	psi	ASTM D638
Tensile Strength	7980	psi	ASTM D638
Flexural Modulus	409000	psi	ASTM D790
Flexural Strength	13100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.4	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Annealed)	215	°F	ASTM D648
CLTE - Flow	3.1E-5	in/in/°F	ASTM D696
Additional Information	Nominal Value	Unit	Test Method
Cell Classification	23447		ASTM D1784

Notes

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

