

Alpha PVC 2212/7-118 CLEAR 0003

Rigid Polyvinyl Chloride

AlphaGary

Message:

2212/7-118 CLEAR 0003 is a PVC compound produced with FDA sanctioned raw materials. Crystal clear rigid parts can be produced with this formulation which features high flow and excellent heat stability for easy molding. 2212/7-118 CLEAR 0003 has become the standard in the medical industry for a variety of applications such as connectors, drip chambers and accessories to medical bags and catheters.

General Information	
Features	Good formability
	High liquidity
	Thermal stability, good
Uses	Connector
	Medical/nursing supplies
Agency Ratings	FDA not rated
RoHS Compliance	Contact manufacturer
Appearance	Clear/transparent
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32 - 1.36	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, 6.35 mm)	76 - 82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2040	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 1.91mm	62.9	MPa	ASTM D638
Fracture, 1.91mm	31.0	MPa	ASTM D638
Tensile Elongation (Break, 1.91 mm)	7.0	%	ASTM D638
Flexural Modulus (3.18 mm)	2550	MPa	ASTM D790
Flexural Strength (Yield)	67.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	54.4	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	149	°C	
Middle Temperature	160	°C	
Front Temperature	166	°C	
Nozzle Temperature	182	°C	
Processing (Melt) Temp	171 - 182	°C	
Injection instructions			
Zone 4: 340°F Zone 5: 350°F			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	149	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	166	°C	
Cylinder Zone 4 Temp.	171	°C	
Cylinder Zone 5 Temp.	177	°C	
Adapter Temperature	182	°C	
Melt Temperature	171 - 182	°C	

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