

Alpha PVC 2212RHT/1-118 CLEAR 080X

Rigid Polyvinyl Chloride

AlphaGary

Message:

2212RHT/1-118 CLEAR 080X is a non-toxic high-flow, clear rigid PVC composition primarily designed for injection molding. This compound provides high thermal stability for easy processing into medical device components such as fistulas, luers, hubs, connectors, drip chambers, etc. Representative samples of this compound showed exceptional resistance to radiation sterilization and passed USP Class VI biocompatibility tests for medical devices.

General Information			
Features	Anti-gamma radiation		
	Workability, good		
	High liquidity		
	Thermal stability, good		
	Biocompatibility		
	Non-toxic		
Uses	Connector		
	Medical/nursing supplies		
Agency Ratings	USP Class VI		
RoHS Compliance	Contact manufacturer		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30 - 1.34	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	13	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D, 10 seconds, 3.18mm	74 - 80		ASTM D2240
Shaw D, 15 seconds, 6.35mm	73 - 79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1830	MPa	ASTM D638
Tensile Strength (1.91 mm)	44.8	MPa	ASTM D638
Tensile Elongation (Break, 1.91 mm)	10	%	ASTM D638
Flexural Modulus (3.18 mm)	2650	MPa	ASTM D790
Flexural Strength (Yield)	78.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	63.9	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	160	°C	
Middle Temperature	166	°C	
Front Temperature	171	°C	
Nozzle Temperature	174	°C	
Processing (Melt) Temp	177 - 182	°C	
Injection instructions			
Zone 4: 345°F			

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