

Alpha PVC 2212-100 CLEAR 0003

Semi-Rigid Polyvinyl Chloride

AlphaGary

Message:

2212-100 CLEAR 0003 is a semi-rigid PVC formulation for injection molding. This compound presents excellent flow characteristics, low processing temperatures, superior heat stability and good mold release. 2212-100 CLEAR 0003 is designed to meet U.S. Pharmacopeia Class VI and cytotoxicity requirements for medical devices.

General Information			
Features	Good Mold Release		
	Good Thermal Stability		
	High Flow		
Uses	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
RoHS Compliance	Contact Manufacturer		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28 to 1.32	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	87	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, 6.35 mm)	62 to 68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	448	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 1.91 mm	28.5	MPa	
Break, 1.91 mm	28.3	MPa	
Tensile Elongation (Break, 1.91 mm)	220	%	ASTM D638
Flexural Modulus (3.18 mm)	563	MPa	ASTM D790
Flexural Strength (Yield)	23.0	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	180	kN/m	ASTM D1004
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	27	J/m	ASTM D256
Injection	Nominal Value	Unit	

Processing (Melt) Temp	160 to 171	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	138	°C
Cylinder Zone 2 Temp.	149	°C
Cylinder Zone 3 Temp.	154	°C
Cylinder Zone 4 Temp.	160	°C
Cylinder Zone 5 Temp.	166	°C
Adapter Temperature	166	°C
Melt Temperature	166 to 174	°C
Die Temperature	166	°C
NOTE		

1. Graves

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

