

# Alpha PVC 2235RSM-100 CLEAR 000X

Semi-Rigid Polyvinyl Chloride

AlphaGary

## Message:

2235RSM-100 Clear 000X is a semi-rigid, phthalate free PVC compound with good flow characteristics, low processing temperatures, superior heat stability and easy mold release. 2235RSM-100 Clear 000X has significant toughness, color stability and excellent resistance to gamma radiation. Component extraction by lipids, polystyrene, polycarbonate or other fatty materials is extremely low. Designed to meet the U.S.P. Class VI and cytotoxicity requirements for medical devices, this compound is recommended for use in a variety of applications such as connectors, accessories to IV bags and extruded catheters.

General Information			
Features	Extraction Resistant Good Color Stability Good Flow Good Mold Release Good Thermal Stability Good Toughness Radiation (Gamma) Resistant		
Uses	Connectors Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
RoHS Compliance	Contact Manufacturer		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30 to 1.34	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 10 sec, 3.18 mm	58 to 64		
Shore D, 15 sec, 6.35 mm	57 to 63		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	359	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 1.91 mm	27.6	MPa	
Break, 1.91 mm	27.6	MPa	
Tensile Elongation (Break, 1.91 mm)	220	%	ASTM D638
Flexural Modulus (3.18 mm)	531	MPa	ASTM D790

Flexural Strength (Yield)	8.96	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
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	177	°C	
Melt Temperature	171 to 185	°C	
Die Temperature	177	°C	

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#### Recommended distributors for this material

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