

Unichem 1116G-015

Flexible Polyvinyl Chloride

Colorite Polymers

Message:

Unichem 1116G-015 is a Flexible Polyvinyl Chloride product. It can be processed by injection molding and is available in North America. Applications of Unichem 1116G-015 include food contact applications and medical/healthcare.

Characteristics include:

- Heat Resistant
- Impact Resistant
- Sterilizable

General Information			
Features	Good Color Stability		
	Good Flow		
	Good Impact Resistance		
	Good Thermal Stability		
	Radiation Sterilizable		
Uses	Food Service Applications		
	Medical/Healthcare Applications		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	1.7	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	44.3	MPa	ASTM D638
Tensile Elongation (Yield)	11	%	ASTM D638
Flexural Modulus	2690	MPa	ASTM D790
Flexural Strength (Yield)	72.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	62.2	°C	
1.8 MPa, Unannealed	57.8	°C	

Injection	Nominal Value	Unit
Processing (Melt) Temp	163 to 168	°C
Mold Temperature	10.0 to 37.8	°C
Back Pressure	0.689 to 2.76	MPa
Screw Speed	40 to 100	rpm
Screw Compression Ratio	2.0:1.0 to 3.0:1.0	

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Recommended distributors for this material

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