

Unichem 7477G-015

Flexible Polyvinyl Chloride

Colorite Polymers

Message:

Unichem 7477G-015 is a flexible medical grade PVC compound designed for those medical devices that require the use of a non-phthalate plasticizer that has superior resistance to extraction by blood lipids, high fat emulsions and formulated to resist discoloration and degradation when subjected to gamma ray sterilization.

Unichem 7477G-015 is designed to be extruded under similar processing conditions to compounds plasticized with DEHP. Unichem 7477G-015 is available in ethylene oxide and radiation sterilizable grades. Unichem 7477G-015 is available with and without tint as desired.

General Information			
Additive	Plasticizer		
Features	Radiation disinfection		
	Ethylene oxide disinfection		
	Plasticized		
	Good flexibility		
Uses	Medical devices		
Agency Ratings	USP Class VI		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	74		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant	7.93	MPa	ASTM D638
Tensile Strength	16.3	MPa	ASTM D638
Tensile Elongation (Yield)	400	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-31.0	°C	ASTM D746
Additional Information			
Screw Compression Ratio: 2.5:1 to 3.2:1Typical Profile Temperature:			
Compound Durometer 50 to 60: 280 to 330°F			
Compound Durometer 60 to 70: 290 to 340°F			
Compound Durometer 70 to 80: 300 to 350°F			
Compound Durometer 80 to 90: 310 to 360°F			
Melt Temperature:			
Compound Durometer 50 to 60: 315 to 320°F			
Compound Durometer 60 to 70: 320 to 330°F			
Compound Durometer 70 to 80: 330 to 345°F			
Compound Durometer 80 to 90: 340 to 355°F			
Extrusion	Nominal Value	Unit	
Melt Temperature	166 - 174	°C	

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