

# Unichem 5312

Flexible Polyvinyl Chloride

Colorite Polymers

## Message:

Unichem 5312 is a Flexible Polyvinyl Chloride product. It can be processed by injection molding and is available in North America. Applications of Unichem 5312 include food contact applications and medical/healthcare.

Characteristics include:

Good Flexibility

Non-Toxic

General Information			
Features	Good Flexibility		
	Non-Toxic		
Uses	Food Service Applications		
	Medical/Healthcare Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8.96	MPa	ASTM D638
Tensile Elongation (Yield)	450	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.09	MPa	ASTM D412
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 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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