

# Unichem 1417-013

Flexible Polyvinyl Chloride

Colorite Polymers

Message:

Unichem 1417-013 is a Flexible Polyvinyl Chloride product. It can be processed by extrusion or injection molding and is available in North America. Characteristics include:  
Good UV Resistance  
Heat Resistant  
Impact Resistant  
Rigid

General Information			
Features	Good Flow		
	Good Impact Resistance		
	Good Thermal Stability		
	Good UV Resistance		
	High Rigidity		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	1.3	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 Modulus	2710	MPa	ASTM D638
Tensile Strength (Yield)	50.3	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength (Yield)	91.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	67.8	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	ASTM D1003
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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