

Resilience™ HC 4895

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience™ HC 4895 is a Rigid Polyvinyl Chloride product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Typical application: Medical/Healthcare.
Characteristics include:
Flame Rated
High Flow
Impact Resistant

General Information			
UL YellowCard	E41877-234293		
Features	High Flow		
	High Impact Resistance		
Uses	Medical Devices		
Appearance	Colors Available		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Spiral Flow	88.9	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2410	MPa	ASTM D638
Tensile Strength ² (Yield)	42.7	MPa	ASTM D638
Tensile Elongation ³ (Break)	58	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
0°C, 3.18 mm, Injection Molded	590	J/m	
23°C, 3.18 mm, Injection Molded	910	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	71.1	°C	
0.45 MPa, Annealed, 6.35 mm	73.9	°C	
1.8 MPa, Unannealed, 6.35 mm	67.8	°C	
1.8 MPa, Annealed, 6.35 mm	72.2	°C	
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm, Transparents)	V-0	UL 94	
Optical	Nominal Value	Unit	Test Method
Transmittance (3180 μm)	79.0	%	ASTM D1003
Haze (3180 μm)	8.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 204	°C	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		

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