

Resilience™ HC 8220

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience HC 8220 is a high flow, very high impact resistance rigid grade offering enhanced chemical resistance for medical device housing applications. It is RoHS compliant.

General Information			
Features	High Flow		
	High Impact Resistance		
Uses	Medical Device Housings		
Agency Ratings	NSF 51		
	NSF 61		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Spiral Flow	86.4	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2690	MPa	ASTM D638
Tensile Strength ² (Yield)	48.3	MPa	ASTM D638
Tensile Elongation ³ (Break)	22	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18 mm, Injection Molded	110	J/m	
0°C, 3.18 mm, Injection Molded	690	J/m	
23°C, 3.18 mm, Injection Molded	1100	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	68.9	°C	
0.45 MPa, Annealed, 3.18 mm	72.8	°C	
1.8 MPa, Unannealed, 3.18 mm	68.9	°C	
1.8 MPa, Annealed, 3.18 mm	72.8	°C	

RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 210	°C	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		

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