

Resilience™ HC 8230

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Resilience HC 8230 is a medium flow, very high impact resistance rigid grade offering enhanced chemical resistance for medical device housing applications. It is RoHS compliant with UL V0 and 5VA ratings.

General Information			
Features	High Impact Resistance		
	Medium Flow		
Uses	Medical Device Housings		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Spiral Flow	78.7	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	2590	MPa	ASTM D638
Tensile Strength ² (Yield)	45.5	MPa	ASTM D638
Tensile Elongation ³ (Break)	25	%	ASTM D638
Flexural Modulus	2710	MPa	ASTM D790
Flexural Strength	71.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18 mm, Injection Molded	640	J/m	
0°C, 3.18 mm, Injection Molded	1100	J/m	
23°C, 3.18 mm, Injection Molded	1300	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	69.4	°C	
0.45 MPa, Annealed, 3.18 mm	73.3	°C	
1.8 MPa, Unannealed, 3.18 mm	67.2	°C	
1.8 MPa, Annealed, 3.18 mm	71.1	°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm, ALL	V-0	
2.01 mm, ALL	5VA	
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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