



Geon™ Vinyl Rigid Molding HC 8260

Rigid Polyvinyl Chloride

Key Characteristics

Product Description

Resilience HC 8260 is medium flow, high impact, rigid grade offering enhanced chemical resistance for medical device housing application.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Impact Resistance	• Medium Flow	
Uses	• Medical Device Housings		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.42	1.42	ASTM D792
Spiral Flow	22.8 in	58.0 cm	
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	334000 psi	2300 MPa	ASTM D638
Tensile Strength ² (Yield)	6240 psi	43.0 MPa	ASTM D638
Tensile Elongation ² (Break)	23 %	23 %	ASTM D638
Flexural Modulus	344000 psi	2380 MPa	ASTM D790
Flexural Strength	10000 psi	69.0 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
0°F (-18°C), 0.125 in (3.18 mm), Injection Molded	2.9 ft·lb/in	160 J/m	
32°F (0°C), 0.125 in (3.18 mm), Injection Molded	6.7 ft·lb/in	360 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	14 ft·lb/in	750 J/m	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	81	81	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	161 °F	71.9 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.250 in (6.35 mm)	170 °F	76.9 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	161 °F	71.6 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.250 in (6.35 mm)	168 °F	75.8 °C	ASTM D648
RTI Elec	122 °F	50.0 °C	UL 746

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
RTI Imp	122 °F	50.0 °C	UL 746
RTI Str	122 °F	50.0 °C	UL 746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (51 mm/min)



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