

Geon™ Vinyl Rigid Molding M5240 Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeNorth America	South America
Features	 General Purpose 	 High Impact Resistance 	 Medium Flow
Uses	 Construction Applications 	 General Purpose 	 Outdoor Applications
Forms	Pellets		

	Technical Properties	S ¹	
hysical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.41	1.41 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0020 to in/in 0.0050	0.20 to 0.50 %	ASTM D955
echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	340000 psi	2340 MPa	ASTM D638
Tensile Strength ² (Yield)	6200 psi	42.7 MPa	ASTM D638
Tensile Elongation ² (Break)	45 %	45 %	ASTM D638
Flexural Modulus	350000 psi	2410 MPa	ASTM D790
Flexural Strength	10300 psi	71.0 MPa	ASTM D790
pact	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	3.00 ft·lb/in	160 J/m	
32°F (0°C), 0.125 in (3.18 mm), Injection Molded	7.00 ft·lb/in	374 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	14.0 ft·lb/in	747 J/m	
ardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	79	79	ASTM D2240
ermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	163 °F	72.8 °C	
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.250 in (6.35 mm)	172 °F	77.8 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	160 °F	71.1 °C	
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.250 in	169 °F	76.1 °C	ASTM D648
(6.35 mm)			
ammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating -	• V-0	• V-0	UL 94
UL (0.0630 in (1.60 mm), ALL)	• 5VA	• 5VA	

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Technical Data Sheet

UL 746	Typical Value (English)	Typical Value (SI)	Test Method
RTI Str	194 °F	90.0 °C	UL 746
RTI Imp	185 °F	85.0 °C	UL 746
RTI Elec	194 °F	90.0 °C	UL 746
Outdoor Suitability (All Colors)	f1	f1	UL 746C
Additional Information	Typical Value (English)	Typical Value (SI)	
Relative Spiral Flow	24 in	610 mm	

Processing Information

1 100000mg mormation				
Injection	Typical Value (English)	Typical Value (SI)		
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C	_	

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¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (51 mm/min)