

GEON® Rigid M1210

GEON Performance Solutions - Rigid Polyvinyl Chloride

Thursday, November 2, 2023

General Information						
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Material Status	Commercial: Active ¹					
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America			
Additive	 Impact Modifier 					
Features	 Impact Modified 					
Uses	 Fittings 					
Agency Ratings	NSF STD-14	NSF STD-61	NSF Type II ²			
Forms	 Pellets 					
Processing Method	 Injection Molding 					

ASTM & ISO Properties ³									
Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method				
Density / Specific Gravity	1.38		1.38		ASTM D792				
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3	in/in	0.20 to 0.50	%	ASTM D955				
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method				
Tensile Modulus ⁴	360000	psi	2480	MPa	ASTM D638				
Tensile Strength ⁴ (Yield)	6200	psi	42.7	MPa	ASTM D638				
Flexural Modulus	403000	psi	2780	MPa	ASTM D790				
Flexural Strength	10800	psi	74.5	MPa	ASTM D790				
Impact	Nominal Value	(English)	Nominal Value	(SI)	Test Method				
Notched Izod Impact					ASTM D256A				
32°F (0°C), 0.125 in (3.18 mm), Injection Molded	2.0	ft·lb/in	110	J/m					
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	20	ft·lb/in	1100	J/m					
Hardness	Nominal Value	(English)	Nominal Value	(SI)	Test Method				
Rockwell Hardness (R-Scale)	107		107		ASTM D785				
Durometer Hardness (Shore D)	81		81		ASTM D2240				
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method				
Deflection Temperature Under Load					ASTM D648				
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	160	°F	71.1	°C					
Flammability	Nominal Value	(English)	Nominal Value	(SI)	Test Method				
Flame Rating (0.06 in (1.5 mm), WT)	V-0		V-0		UL 94				

NSF - Cell Classification D1784 (NSF Listed) -- 14333 / NSF - Cell Classification D1784 (Capable) -- 14334

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

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Notes

- ¹ RoHS compliant.
- 2 NSF Agency ratings are based on tested and certified colors. Please contact PolyOne technical for further information.
- ³ Typical properties: these are not to be construed as specifications.
- ⁴ Type I, 2.0 in/min (51 mm/min)