

GEON® Rigid M3500

GEON Performance Solutions - Rigid Polyvinyl Chloride

Thursday, November 2, 2023

	General Information			
General				
Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin AmericaNorth America		
Additive	 Impact Modifier 			
Features	 General Purpose 	Impact Modified		
Uses	AppliancesBusiness Equipment	 Construction Applications Electrical/Electronic Applications Telecommunications 		
Appearance	• Opaque			
Forms	 Pellets 			
Processing Method	Injection Molding			

	ASTM & I	SO Propertie	S ¹		
Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density / Specific Gravity	1.36		1.36		ASTM D792
Spiral Flow	28.0	in	71.1	cm	
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 ²	370000	psi	2550	MPa	ASTM D638
Tensile Strength ² (Yield)	6700	psi	46.2	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	50	%	ASTM D638
Flexural Modulus	360000	psi	2480	MPa	ASTM D790
Flexural Strength	10300	psi	71.0	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	1.0	ft·lb/in	53	J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	12	ft·lb/in	640	J/m	
Hardness	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Durometer Hardness (Shore D)	80		80		ASTM D2240
Thermal	Nominal Value	(English)	Nominal 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	
66 psi (0.45 MPa), Annealed, 0.250 in (6.35 mm)	171	°F	77.2	°C	
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	160	°F	71.1	°C	
264 psi (1.8 MPa), Annealed, 0.250 in (6.35 mm)	167	°F	75.0	°C	
RTI Elec (0.12 in (3.0 mm))	203	°F	95.0	°C	UL 746B
RTI Imp (0.12 in (3.0 mm))	185	°F	85.0	°C	UL 746B
RTI Str (0.12 in (3.0 mm))	203	°F	95.0	°C	UL 746B

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Flammability	Non	minal Value (English)	Nomi	nal Value (SI)	Test Method
Flores Dating	•	V-0	•	V-0	111.04
Flame Rating • 5	5VA	•	5VA	UL 94	

	Processing In	formation	
Injection	Nominal Value (Eng	lish) Nominal Value	(SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type I, 2.0 in/min (51 mm/min)