

Geon™ Vinyl Rigid Molding M4821

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M4821 is a rigid PVC product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Features include:

flame retardant/rated flame

high liquidity

Transparency

General Information			
Features	High liquidity Definition, high General		
Uses	General		
Appearance	Clear/transparent		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (190°C/21.6 kg)	2000	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2780	MPa	ASTM D638
Tensile Strength ³ (Yield)	51.2	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	21	%	ASTM D638
Flexural Modulus	2740	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
0°C, 3.18mm, injection molding	32	J/m	ASTM D256A
23°C, 3.18mm, injection molding	59	J/m	ASTM D256A
Instrumented Dart Impact ⁵			ASTM D3763
23°C, 3.18mm, injection molding, Energy to Peak Load	27.1	J	ASTM D3763
23°C, 3.18mm, injection molding, Total Energy	75.9	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, annealed, 3.18mm	67.0	°C	ASTM D648
1.8 MPa, annealed, 3.18mm	65.0	°C	ASTM D648
Flammability		Nominal Value	Test Method
Flame Rating			UL 94
1.5 mm, ALL	V-0		UL 94
1.9 mm, ALL	5VA		UL 94
Optical		Nominal Value	Unit
Transmittance ⁶ (3180 μm)		73.3	%
Haze (3180 μm)		3.4	%
Injection		Nominal Value	Unit
Processing (Melt) Temp		202 - 204	°C
NOTE			
1.	Procedure B		
2.	Type 1, 51mm/min		
3.	Type 1, 51mm/min		
4.	Type 1, 51mm/min		
5.	3.40 m/sec		
6.	CIE Illuminant C		

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