



Geon™ Vinyl Rigid Extrusion 6935

PolyOne Corporation - Rigid Polyvinyl Chloride

3/29/2010

General Information

General

Regional Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe North America 	<ul style="list-style-type: none"> South America
Features	<ul style="list-style-type: none"> Good Impact Resistance 	<ul style="list-style-type: none"> Good Weather Resistance 	
Agency Ratings	<ul style="list-style-type: none"> CSA A440-M90 		
Forms	<ul style="list-style-type: none"> Pellets 		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46		ASTM D792
PVC Cell Classification	1-41434-33		ASTM D4216
PVC Cell Classification	16354		ASTM D1784
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	433000	psi	ASTM D638
Tensile Strength ² (Yield)	6010	psi	ASTM D638
Flexural Modulus	422000	psi	ASTM D790
Flexural Strength	11800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
Across Flow: 73°F, 0.125 in, Compression Molded	21.9	ft-lb/in	
Flow: 73°F, 0.125 in, Compression Molded	18.7	ft-lb/in	
Drop Impact Resistance			ASTM D4226
73°F ³	3.90	in-lb/mil	
73°F ⁴	1.10	in-lb/mil	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	79		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in	163	°F	
CLTE - Flow	0.000036	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (0.0354 in, ALL)	V-0		UL 94
Additional Information	Nominal Value	Unit	
Ease of Sizing	Excellent		

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	360 to 380	°F

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Notes

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

² Type I, 0.20 in/min

³ Procedure B, C.125 Dart

⁴ Procedure A, C.125 Dart