



Weatherguard® WG 1028 HG Series

Teknor Apex Company - Rigid Polyvinyl Chloride

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America	
Features	• Excellent Processability • Good Flow • Good Weather Resistance	• High Gloss • Low Gloss • Low Heat Build-up	• Medium Gloss • UV Stabilized
Uses	• Building Materials • Capstock • Cladding Capstock	• Decking Capstock • Fencing & Decking • Railing Capstock	• Siding Capstock
Regulatory Statement	• Due to the frequent updates to regulations, specifically, California Proposition 65, EU REACH SVHCs, and RoHS, please contact Teknor Apex for the most up to date compliance statement, or refer to section 15 of the product SDS.		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.45		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	19	g/10 min	ASTM D1238
PVC Cell Classification	1-20144-22		ASTM D4216
PVC Cell Classification	13363		ASTM D1784
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ² (73°F, 0.125 in, Injection Molded)	459000	psi	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 73°F, 0.125 in, Injection Molded	6610	psi	
Tensile Elongation ²			ASTM D638
Yield, 73°F, 0.125 in, Injection Molded	150	%	
Flexural Modulus ³ (73°F, 0.125 in, Injection Molded)	488000	psi	ASTM D790
Flexural Strength ³ (73°F, 0.125 in, Injection Molded)	10700	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in, Injection Molded)	1.6	ft-lb/in	ASTM D256
Drop Impact Resistance			ASTM D4226
0.125 in ⁴	0.920	in-lb/mil	
0.125 in ⁵	1.27	in-lb/mil	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 0.250 in)	110		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 10 sec, Operating Stand, Compression Molded	77		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Annealed, 0.125 in, Injection Molded	152	°F	
Vicat Softening Temperature	163	°F	ASTM D1525 ⁶
CLTE - Flow (-40 to 104°F, 0.236 in)	3.8E-5	in/in/°F	ASTM E831

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)		HB	UL 94

Additional Information

Data Sheet Applies to ALL Colors in the WG 1028 HG Series

10/21-cw

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Type I, 0.20 in/min
- ³ 0.050 in/min
- ⁴ Procedure A
- ⁵ Procedure B
- ⁶ Rate A (50°C/h), Loading 1 (10 N)