



APEX® 50062000

Teknor Apex Company - Polyvinyl Chloride + Acrylic (PMMA)

General Information

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Latin America • North America
Features	• Chemical Resistant • Flame Retardant • Good Impact Resistance • Good Weather Resistance
Uses	• Appliances • Computer Components • Electrical/Electronic Applications • Power/Other Tools • Medical/Healthcare Applications • Telecommunications
Agency Ratings	• UL 94
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.
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.32		ASTM D792
Melt Mass-Flow Rate (MFR)	34	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	6500	psi	ASTM D638
Flexural Modulus	326000	psi	ASTM D790
Flexural Strength	9400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	18	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	159	°F	
Deflection Temperature Under Load (264 psi, Annealed)	167	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.08 in)	• V-0 • 5VA		UL 94

Additional Information

Injection Notes: Drying is typically not necessary, however if the material is old or has been stored in moist conditions follow the drying conditions listed.

This Data Sheet Applies to Color(s) Listed Below:

Natural (1110593)
Grey 3516 (1147665)
Tan 2402 (1147604)
White 1377 (1146099)
White 1843 (1147646)

3/21-cw

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	129 to 160	°F
Drying Time	4.0	hr
Suggested Shot Size	75	%
Middle Temperature	315 to 385	°F
Front Temperature	315 to 385	°F
Mold Temperature	90 to 140	°F
Back Pressure	99.9 to 400	psi
Clamp Tonnage	3.0 to 3.5	tons/in ²
Screw Compression Ratio	2.0:1.0 to 2.6:1.0	

Notes

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