Steinwall Inc.
Re-Defining the Supply Chain®
Working in Harmony with Our Customers
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INJECTION MOLDING ENGINEERING MOLD MAKING ASSEMBLY DECORATING DISTRIBUTION

ASA/PC

1. Common trade names:	**GeloyXP4025 Centrex**		
	UNITS		
2. Density	g/cm^3	1.11	Mass per unit volume
3. Mold Shrinkage	in./in.	.003-.006	Size of part versus mold cavity
4. Continuous Service Temp	°F	239	Highest temp material can perform reliably for the long term
5. Melting Point	°F		Tempurature material begins to melt
6. Processing Temp	°F	490-520	Recommended tempurature for molding
7. Tensile Strength	$\frac{lb}{in.^2}$	7000	Maximum stress without yielding to a stretching mold
8. Izod Impact Strength	$\frac{ft\text{-}lb}{in.}$	3.2	Energy required to break at a v-notch
9. Compressive Strength	$\frac{10^3\ lb.}{in.^2}$		Resist a crushing force
10. Flexural Strength, yeild	$\frac{10^3\ lb.}{in.^2}$	12	Resistance to fracture during bending
11. Elongation, tensile break	%	25	Stretching ability before breaking
12. Dielectric Strength	$\frac{V}{10^{-3}\ in.}$	813-1101	Voltage material can withstand before dielectric breakdown * = aluminum oxide
13. Water Absorption, 24 hours	%	.11-.32	% Water absorbed when immersed in water for 24 hours
14. Coefficent of Lin. Thermal Expansion	$\frac{10^{-5}\ in.}{in.\ °F}$	4.4	Change in length per change in temperature
15. Crystalline or Amorphous	C = Crystalline A = Amorphous		Crystalline: arranged polymer, sharp melting point Amorphous: random polymer, broad melt)
16. Clarity	O = Opaque TP = Transparent TL = Translucent	O	Opaque = no light passes through it Transparent = some light passes through it Translucent = light passes directly through it
17. Flammability	**Flame Resistance** **High ← Low** **5VA 5VB V-0 V-1 V-2 HB**	HB	Reference standard UL 94
18. Process: Drying Required		Yes	Is it recommended to dry the material prior to molding?
19. Hot Stamp			Does the material hot stamp?
20. Machining Qualities	**Qualitative Scale: Excellent, Good, Fair, Poor**		How does the material machine?
21. Creep Resistance		Good	Can this material keep it's shape under load? * = with additive or co-polymer
22. Ultrasonic Welding			Does the material weld via ultrasonics?
23. Low Friction		Good	Surface lubricity
24. Abrasion Resistance		Poor	How well does the material withstand wear? * = with additive or co-polymer
25. Solvent Resistance		Good	How well does the material withstand chemicals?
26. UV Resistance		Excellent	How well does the material withstand UV rays? * = with UV additive
27. Environmental Stress Crack Resistance			Can this material resist environmental stress cracking? * = with additive or co-polymer
28. FDA			Are there FDA grades available?
29. Living Hinge		No	Can this material be used in a living hinge application?
30. Year Developed			
31.Cost: year 2006	$/lb. @ 5,000 lbs.	$4.20	Natural/Black Year 2006

32. Applications: **High Heat, High Impact, Good Weathering, Auto Parts**

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