



Kleerdex Company

KYDEX[®] 107 HIGH PERFORMANCE SHEET FOR NSF

Fire-Retardant thermoplastic acrylic/PVC sheet design specifically for applications requiring NSF approval.

GENERAL INFORMATION

Kydex 107 is a proprietary acrylic/PVC thermoplastic sheet designed for NSF approved applications that offers improved properties compared to competitive ABS thermoplastic sheet. It is made using only FDA approved raw materials for quick acceptance by the National Sanitation Foundation. It is available in limited colors, but a wide range of textures and sheet sizes.

SUGGESTED END-USES

- Ice makers, vending machines, beverage dispensers, and other equipment requiring NSF approval
- As a replacement for stainless steel parts where cost, weight, and/or color variety are important.

FEATURES

Kydex 107 is formulated only with FDA approved (under 21CFR) raw materials to facilitate NSF approval for applications requiring it.

Kydex 107 has higher breakage resistance as measured by the Notched Izod test than competitive thermoplastics.

Kydex 107 is available in gauges from 0.028" (.71mm) and up, eight textures, and custom colors.

FABRICATION

Excellent forming properties result in uniform wall thicknesses and crisp detail, plus easy machining and fabricating using conventional methods, further expanding finished part possibilities.

PROPERTY	TEST METHOD	TYPICAL VALUE ¹
Specific Gravity	ASTM D-792	1.33-1.37
Tensile Strength, psi (MPa)	ASTM D-638	6,900 (48)
Elongation at Break, % 150		
Flexural Strength, psi (MPa)	ASTM D-790	10,500 (72.4)
Modulus of Elasticity, psi (MPa)		400,000 (2758)
Rockwell Hardness, R	ASTM D-785	108
Notched Izod Impact Resistance, 73°F (23°C), ft-lbs/in (J/m)	ASTM D-256	7 (374)
Heat Deflection Temperature, HDT, @264psi (1.8MPa), annealed, °F (°C)	ASTM D-648	173° (78°)
Flammability Resistance ²	UL Standard 94	V-0, 5V
Forming Temperature		325°-390° (162°-200°)
Mold Shrinkage, %		0.4 - 0.6

¹All values based on 0.125" (3.12mm) sheet unless otherwise specified.

²All gauges from 0.028" (.71mm) and greater. Not intended for specification purposes.