

Kleerdex Kydex® 107 Acrylic/PVC Thermoplastic Sheet (discontinued **)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Vinyl (PVC) , PVC/Acrylic Alloy

Material Notes:

High performance sheet for NSF Applications: 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 raw materials to facilitate NSF approval for applications requiring it. It has higher breakage resistance as measured by the Notched Izod test than competitive thermoplastics. It is available in a wide range of textures and sheet sizes. 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. Data provided by the Kleerdex Company. Kleerdex Company became KYDEX, LLC in 2009.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kleerdex-Kydex-107-AcrylicPVC-Thermoplastic-Sheet-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.33 - 1.37 g/cc	0.0480 - 0.0495 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	150 %	150 %	
Modulus of Elasticity	2.758 GPa	400.0 ksi	
Flexural Yield Strength	72.4 MPa	10500 psi	ASTM D790
Izod Impact, Notched	3.74 J/cm @Temperature 23.0 °C	7.01 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	annealed; ASTM D648
UL RTI, Electrical	50.0 °C @Thickness 0.700 - 6.00 mm	122 °F @Thickness 0.0276 - 0.236 in	
UL RTI, Mechanical with Impact	50.0 °C @Thickness 0.700 - 6.00 mm	122 °F @Thickness 0.0276 - 0.236 in	

Thermal Properties <i>UL RTI, Mechanical without impact</i>	50.0 °C Metric	122 °F English	Comments
	@Thickness 0.700 - 6.00 mm	@Thickness 0.0276 - 0.236 in	
Flammability, UL94	V-0	V-0	V-0, 5V; UL Standard 94

Processing Properties	Metric	English	Comments
Processing Temperature	162 - 200 °C	324 - 392 °F	Forming Temperature

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