

Kleerdex Kydex® 510 Acrylic/PVC Thermoplastic Sheet (discontinued **)

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

Material Notes:

Weatherable and decorative sheet Applications: Housings for equipment, recreation vehicles and truck parts, safety equipment, building products, signage, wall panels, facia, doors, service counters, exhibits. Features: Kydex 510 offers the properties of "Kydex" in a weatherable formulation. It is highly impact resistant as measure by the notched Izod impact test. Kydex 510 is fire retardant with a UL 94 V-0 rating as measured by independent test labs. Specifiers have selected Kydex sheet for surfacing and lamination applications because of its unique characteristics such as: low moisture absorption, resistance to chipping and cracking, excellent fabrication and matching properties, and flexibility. 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-510-AcrylicPVC-Thermoplastic-Sheet-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 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	94	94	ASTM D785
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ASTM D638
Elongation at Break	110 %	110 %	
Modulus of Elasticity	2.482 GPa	360.0 ksi	
Flexural Yield Strength	66.0 MPa	9570 psi	ASTM D790
Izod Impact, Notched	8.01 J/cm @Temperature 23.0 °C	15.0 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	38.3 µm/m-°C @Temperature 20.0 °C	21.3 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	70.5 °C	159 °F	annealed; ASTM D648
Flammability, UL94	V-0	V-0	Independent Test Lab

Processing Properties	Metric	English	Comments
Processing Temperature	163 - 200 °C	325 - 392 °F	Forming Temperature

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