

KYDEX® 6185 Thermoplastic Sheet

Category : Polymer , Thermoplastic

Material Notes:

High temperature aircraft grade Applications: Aircraft interior components examples include: air ducts, window reveals, instrument panels, toilet shrouds, armrests Features: Kydex 6185 is a proprietary thermoplastic sheet with improved heat distortion temperature (HDT) for higher in-service temperatures while providing excellent extensibility, good impact resistance, and excellent solvent resistance. It meets FAR 25.853(a) for use in aircraft interior parts. Maximum recommended service temperature is approx. 82-90°C depending on thermoforming technique and application. Kydex 6185 sheet is designed primarily for use in small aircraft interiors particularly the interior of helicopters which often experience temperature in excess of 82°C, but also is appropriate for other applications where high in-service temperatures may occur. 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_KYDEX-6185-Thermoplastic-Sheet.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	104	104	ASTM D785
Tensile Strength, Ultimate	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	100 %	100 %	
Modulus of Elasticity	2.241 GPa	325.0 ksi	
Flexural Yield Strength	66.0 MPa	9570 psi	ASTM D790
Izod Impact, Notched	2.67 J/cm @Temperature 23.0 °C	5.00 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	annealed; ASTM D648
Flammability, UL94	V-0	V-0	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China