

KYDEX® 430 ABS/PVC Blend for Medical Device Housings

Category : Polymer , Thermoplastic , ABS Polymer , ABS/PVC Alloy , Vinyl (PVC)

Material Notes:

KYDEX® 430 is an ABS/PVC thermoplastic sheet that offers superior thermoformability, rigidity, breakage resistance, chemical resistance and fire retardancy. Features: Good for deep or hard to form parts More rigid, parts will deform less when loaded, can be down -gauged for weight savings Uniform wall thickness and crisp detail Low moisture absorption - no drying needed prior to thermoforming Easy machining and fabricating using conventional methods and equipment. Applications: Medical equipment housings Electrical equipment housings Information provided by Kydex, LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_KYDEX-430-ABSPVC-Blend-for-Medical-Device-Housings.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	50.9 MPa	7380 psi	ASTM D638
Flexural Strength	74.11 MPa	10750 psi	ASTM D790
Flexural Modulus	2.385 GPa	345.9 ksi	ASTM D790
Izod Impact, Notched	1.81 J/cm	3.39 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	73.3 Â°C	164 Â°F	unannealed; ASTM D648
	82.7 Â°C	181 Â°F	annealed; ASTM D648
Flammability, UL94	V-0	V-0	
	5VA	5VA	

Processing Properties	Metric	English	Comments
Processing Temperature	163 - 204 Â°C	325 - 399 Â°F	Thermoforming

Descriptive Properties	Value	Comments
Ball Pressure Test	Pass	IEC 60695-10-2

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