

Kleerdex Kydex® IM90 Acrylic/PVC injection Molding Compound (discontinued **)

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

Material Notes:

Low heat release aviation grade Applications: Kydex IM90 is designed for injection molded parts each need to meet the highest flammability requirements of the FAA (FAR 25.853d) for vertical burn, rate of heat release, and smoke generation. Features: Kydex IM90 is available in many standard and custom colors enabling you to satisfy both the functional and aesthetic requirements of any aircraft interior. Kydex IM90 is very resistant to a wide range of concentrated chemicals, and is therefore easy to clean with aggressive cleaners. Ammoniated cleaners should be avoided since they can leave a residue. Most importantly, Kydex IM90 meets the stringent requirements for the FAR 25.853 paragraph (d) in all thicknesses and colors. Radiant Panel: 2.41 as per ASTM E162 Processing: Drying is not typically required, however, if drying is needed dry at 55° for 4 hours. Barrel temperatures are typically 157 and 196°C. Mold temperature should be between 32 and 60°C. Minimize the residence time in the barrel and keep melt temperatures between 196 and 207°C. To achieve a homogeneous melt, keep sufficient back pressure .7-2.8 N/mm². Before shutdown purge thoroughly and neutralize the mold. Contact Kleerdex Company for more information or refer to the Kydex Injection Molding Guide. 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-IM90-AcrylicPVC-injection-Molding-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	98 %	98 %	
Flexural Yield Strength	74.0 MPa	10700 psi	ASTM D790
Flexural Modulus	3.099 GPa	449.5 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Temperature 23.0 °C	0.599 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	annealed; ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	157 - 207 °C	315 - 405 °F	
Melt Temperature	196 - 207 °C	385 - 405 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	54.4 °C	130 °F	
Dry Time	4 hour	4 hour	Usually not needed

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