

Kleerdex Kydex® P90 Acrylic/PVC Extrusion Compound (discontinued **)

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

Material Notes:

Low heat release aviation gradeApplications: Kydex P90 is designed for extrusion of profiles which need to meet the highest flammability requirement of PAR 25.853a 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.Processing: This compound should be processed using rigid PVC extrusion equipment under standard PVC operating conditions. Barrel temperatures in an extruder should be set at 166-171 °C and adapter and die temperatures should be 171-177 °C. Screw RPMs of 23 to 33 are typical. Typically single screw extruders are used for pelletized material and conical twin screw extruders for powder. Unlike other thermoplastic resins, pre-drying is not required.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-P90-AcrylicPVC-Extrusion-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	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	195 %	195 %	ASTM D638
Flexural Yield Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	2.989 GPa	433.5 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 °C	1.20 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.4 °C	166 °F	annealed; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 182 °C	320 - 360 °F	Barrel Temp
Middle Barrel Temperature	160 - 182 °C	320 - 360 °F	
Adapter Temperature	171 - 177 °C	340 - 350 °F	

Die Temperature Processing Properties	171 - 177 °C Metric	340 - 350 °F English	Comments
Dry Time	0.0 hour	0.0 hour	Drying typically not required

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