

Kleerdex Kydex® P55 Acrylic/PVC Extrusion Compound (discontinued **)

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

Material Notes:

Weatherable profile extrusion compound Applications: Extruded profiles requiring weatherability, high flexural modulus, and excellent flammability resistance. Features: Weatherability is dependent on color and condition. P55 is a rigid compound with a high flexural modulus. Extrusion made with P55 are very resistant to harsh chemicals, solvents, and to cleaning agents. 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-P55-AcrylicPVC-Extrusion-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Modulus of Elasticity	2.592 GPa	375.9 ksi	ASTM D638
Flexural Yield Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.84 GPa	412 ksi	ASTM D790
Izod Impact, Notched	1.35 J/cm @Thickness 3.17 mm	2.53 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	73.8 °C	165 °F	annealed; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	166 - 171 °C	330 - 340 °F	Barrel Temp
Middle Barrel Temperature	166 - 171 °C	330 - 340 °F	
Adapter Temperature	171 - 177 °C	340 - 350 °F	
Die Temperature	171 - 177 °C	340 - 350 °F	

Dry Time Processing Properties	0.0 hour Metric	0.0 hour English	Drying typically not required Comments
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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