

## Kleerdex Kydex® P51 Acrylic/PVC Extrusion Compound (discontinued \*\*)

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

### Material Notes:

Profile extrusion compound for building products  
 Applications: Handrails, crashrails, bumper guards, corner guards  
 Features: Extruded profiles made with P51 are extremely resistant to harsh chemicals and solvents and to cleaning agents. P51 offers excellent fire retardancy; it meets the requirements of Class I/A Building Code Classification. P51 is available in a large range of standard and custom colors. Smoke Generation: 57 Ds @ 4.0 min; ASTM E662.  
 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-P51-AcrylicPVC-Extrusion-Compound-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Kleerdex-Kydex-P51-AcrylicPVC-Extrusion-Compound-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	175 %	175 %	ASTM D638
Flexural Yield Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	2.617 GPa	379.6 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm @Temperature 23.0 °C	1.80 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	annealed; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 171 °C	320 - 340 °F	Barrel Temp
Middle Barrel Temperature	160 - 171 °C	320 - 340 °F	
Adapter Temperature	171 - 177 °C	340 - 350 °F	
Die Temperature	171 - 177 °C	340 - 350 °F	
Dry Time	0.0 hour	0.0 hour	Drying typically not required

Processing Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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