

Beijing Chemical Industry KAIFA® GL5100 ABS Extrusion Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Non-toxic, Superior impact strength at low temp., High gloss, Uniform sheet thickness for vacuum molding
Information provided by Beijing Chemical Industry Research Institute (Group)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-GL5100-ABS-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hr; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	0.380 J/cm @Thickness 3.20 mm	0.712 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	91.0 °C	196 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 230 °C	356 - 446 °F	Resin Temp.
Rear Barrel Temperature	190 °C	374 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	220 °C	428 °F	
Nozzle Temperature	215 °C	419 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 - 90.0 °C @Thickness 30.0 mm	176 - 194 °F @Thickness 1.18 in	
Dry Time	4 hour @Thickness 30.0 mm	4 hour @Thickness 1.18 in	
Injection Pressure	80.0 - 130 MPa	11600 - 18900 psi	injection speed: 80 - 120 rpm
Back Pressure	1.00 - 2.00 MPa	145 - 290 psi	Mold Pressure
Screw Speed	100 rpm	100 rpm	

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