

Alcoa KAMA 3000 High Impact Polystyrene (HIPS) (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

CapabilitiesGauge: .007" to .060" (178 to 1524μm)Width: 12" to 62" (304 to 1575mm)Core Size: 6" standard cores, 3" and 8" availableRoll O.D.: 29" standard, up to 40" availableMono-layer and custom co-extrusion A/B, A/B/A, A/B/CMedical gradeHigh gloss cap layers availableMicrowaveable grades availableGraphic arts availableCustom Colors availableSilicone treating available5 strategic manufacturing locationsPropertiesEasily thermoformedExcellent yieldLow gloss surfaceOffers good opacity in colorsTough, impact resistant sheetFDA compliant to CFR 21 #177.1640Polystyrene-based materialRecycled content availableKosher materialInformation provided by Alcoa Kama Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alcoa-KAMA-3000-High-Impact-Polystyrene-HIPS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
Thickness	178 - 1520 microns	7.00 - 60.0 mil	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	10.3 - 31.0 MPa	1500 - 4500 psi	ASTM D638
Elongation at Break	30 - 125 %	30 - 125 %	ASTM D638
Flexural Modulus	1.38 - 2.76 GPa	200 - 400 ksi	ASTM D790
Izod Impact, Notched	1.07 - 2.94 J/cm	2.00 - 5.50 ft-lb/in	ASTM D265

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	73.9 °C	165 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	127 - 166 °C	260 - 330 °F	Thermoforming Temp

Descriptive Properties	Value	Comments
Resistance to Acid	Good to Excellent	
Resistance to Alcohols	Good to Excellent	
Resistance to Alkalis	Excellent	

Descriptive Properties	Value	Comments
Resistance to Fat, Grease, and Oil	Good	
Resistance to Hydrocarbon Solvents	Poor	
Resistance to Strong Oxidizers	Poor	
Yield, in ² /lb/mil	26360	

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