

## Alcoa KAMA 1100 Prime Clear OPS, Sheet (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

CapabilitiesGauge: .005' to .025" (126 to 635µm)Width: 12" to 62" (305 to 1575mm)Core Size: 6" standard cores, 3" and 8" availableRoll O.D.: 29" standard, up to 40" availableSilicone coating available5 strategic manufacturing locationsPropertiesRemarkable clarityExcellent stiffness to allow downgaugingSuperb yieldEasily thermoformedFDA compliant to CFR 21 #177.1640Kosher MaterialInformation provided by Alcoa Kama Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Alcoa-KAMA-1100-Prime-Clear-OPS-Sheet-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Alcoa-KAMA-1100-Prime-Clear-OPS-Sheet-nbspdiscontinued-.php)

| Physical Properties   | Metric            | English         | Comments  |
|-----------------------|-------------------|-----------------|-----------|
| Specific Gravity      | 1.05 g/cc         | 1.05 g/cc       |           |
| Thickness             | 127 - 635 microns | 5.00 - 25.0 mil |           |
| Linear Mold Shrinkage | 0.0050 cm/cm      | 0.0050 in/in    | ASTM D955 |

| Mechanical Properties   | Metric          | English          | Comments  |
|-------------------------|-----------------|------------------|-----------|
| Tensile Strength, Yield | 55.2 - 82.7 MPa | 8000 - 12000 psi | ASTM D638 |
| Elongation at Break     | 3.0 - 10 %      | 3.0 - 10 %       | ASTM D638 |
| Tensile Modulus         | 2.76 - 3.10 GPa | 400 - 450 ksi    | ASTM D790 |

| Thermal Properties               | Metric   | English | Comments |
|----------------------------------|----------|---------|----------|
| Maximum Service Temperature, Air | 76.7 °C  | 170 °F  |          |
| Minimum Service Temperature, Air | -6.67 °C | 20.0 °F |          |

| Optical Properties    | Metric | English | Comments                        |
|-----------------------|--------|---------|---------------------------------|
| Transmission, Visible | 90 %   | 90 %    | clear; thickness not quantified |

| Processing Properties  | Metric       | English      | Comments           |
|------------------------|--------------|--------------|--------------------|
| Processing Temperature | 132 - 154 °C | 270 - 310 °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 | Poor  |          |
| Resistance to Hydrocarbon Solvents | Poor  |          |
| Resistance to Strong Oxidizers     | Poor  |          |
| Yield, in <sup>2</sup> /lb/mil     | 26360 |          |

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