

# ALCOA KAMA PLASTERRA™ EXTRUDED SHEET DEVELOPMENTAL TECHNICAL DATA SHEET

## Capabilities

Gauge: 0.012 to 0.042" (potentially thicker)  
 Roll width: 14" to 20" and 28" to 40"  
 Core size: 6" standard  
 Roll OD: 18" up to 40"  
 Available in Natural, White, or Black  
 Silicone coating available

## Properties

**Compostable (ASTM D6400)**  
**100% Annually renewable resources**  
**90+% Bio-based Content (ASTM 6866-04a)**  
 Higher thermal stability than PLA  
 Excellent formability  
 High rigidity  
 FDA opinion letter for food contact

## Technical Specifications\*

	Value	Units	ASTM
Specific Gravity	1.25	g/cm <sup>3</sup>	D792
Shrinkage (estimated)	0.4 to 0.6	%	
Surface Energy	48	dyne/cm	D25781
Gardner Impact	6.0	in-lb	D5420
Dart Impact	2.0	ft-lb	D1709A
Tensile Strength at Break	10,500	psi	D882
Tensile Strength at Yield	10,000	psi	D882
Elongation at Break	20	%	D882
Tensile Modulus	450,000	psi	D882
Flexural Modulus	380,000	psi	D790
Typical Thermoforming Temperature	175 to 240 (90 to 130)	°F (°C)	
Typical Range of Use	40 to 120**	°F	
Heat Deflection Temperature (at 264 psi)	151 (65.9)	°F (°C)	D648

\*Samples tested at 0.025" thickness where applicable  
 \*\* Service temperature stability is dependent on material thickness. At gauges below 0.015", the use temperature will vary based on thermoformed part design and the specific use conditions, and it could be as low as 105°F. At gauges above 0.015", maximum service temperature is at least 120°F.

## Chemical Resistance

Acid Resistance	Good
Strong Oxidizers	Poor
Alkalis	Poor
Hydrocarbon Solvents	Poor
Alcohols	Fair
Fat, Grease, and Oil	Excellent

## Capabilities and Technical Specification

The capabilities we list reflect the standard capabilities we offer at the time of this printing. Our Capabilities are likely to broaden as we add capacity and expand our product offering. Please call our Sales Team to further discuss your specific needs.

The data herein represents typical values by the methods indicated and should be so considered. Processing variables are a major factor in product performance; this information should serve only as a guide. To the best of our knowledge, the data is correct. No warranty is expressed or implied. Alcoa KAMA assumes no obligation or liability for the use of data presented.