Shapal™ Hi-M soft Machinable Aluminum Nitride Sheet

Shapal Hi?M soft machinable aluminum nitride sheet for heat spreaders, carriers, and vacuum?compatible spacers. Low expansion aids alignment; clean, stable surface for power modules and test fixtures; processes with standard tools. **SKU:** 1000008197-group
Product Code: AK61-SH-000200

Material Properties for Ceramics

Chemical Resistance

Element	Value
Acids - dilute	Fair
Alkalis	Poor

Electrical Properties

Element	Value
Dielectric constant	7.3
Dielectric strength(kV mm?¹)	40
Volume resistivity(Ohmcm)	1.8 x 10¹³@25C

Physical Properties

Element	Value
Apparent porosity(%)	0
Density(gcm?³)	2.95

Thermal Properties

Element	Value
Upper continuous use temperature(C)	1000-1900
Thermal conductivity(W m?¹ K?¹)	100@20°C
Coefficient of thermal expansion(x10?? K?¹)	5.2@20-1000°C

Mechanical Properties

Element	Value
Tensile modulus(GPa)	160
Hardness - Vickers(kgf mm?²)	560

Pultrusions

Element	Value
Compressive strength(MPa)	1000