

ABS FR refers to ABS with flame retardant properties. Flame retardant additives are incorporated into the ABS resin during the manufacturing process to enhance its fire resistance. ABS FR has improved flammability ratings, such as UL 94 V-0 (self-extinguishing) or V-2 (limited flame spread), depending on the specific formulation and requirements.

Chemical Description

Description	Value
Material Type	Amorphous Thermoplastic
Chemical	Flame Retardant Acrylonitrile Butadiene Styrene

Physical Properties

Property	Maximum Unless Range is Specified
Specific Gravity ,g/cc	1.22
Linear Mold Shrinkage , in/in	0.0050-0.0070
Melt Flow,g/10 min@Load 8.38 lb, Temperature 446 °F	4.0-16
Heat Deflection Temp, °F at 264psi	180
Vicat Softening Point , °F	195
Volume Resistivity, ohm-cm	1.00e+16
Flammability Rating, UL94	V-0

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength, ksi	5.5
Tensile Modulus, ksi	330
Flexural Strength, ksi	9
Flexural Modulus, ksi	345
Elongation at Break	10%
Hardness, Rockwell R	100

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.