

PC-FR refers to Flame Retardant Polycarbonate, which is a modified version of polycarbonate that has been enhanced with flame retardant additives. The addition of these additives improves the material's ability to resist or slow down the spread of flames. PC-FR retains the key properties of polycarbonate, such as high impact strength, transparency, and good electrical insulation properties, while also providing enhanced fire resistance.

Chemical Description

Description	Value
Material Type	Thermoplastic
Chemical Name	Flame Retardant Polycarbonate
Additives	Unfilled
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Specific Gravity	1.22
Melt Flow Rate@300C,/1.2kg,g/10min	10-12
Water Absorption, 24 hrs,% by wt.	0.15
Heat Deflection Temp,°F at 264psi	270
Flammability Rating,UL94	V-0
Dielectric Constant at 1 MHz	3.0
Dielectric Factor at 1 MHz	0.01
Volume Resistivity,ohm.cm	>1E16

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	9.1
Tensile Modulus,ksi	330
Flexural Strength,ksi	14
Flexural Modulus,ksi	350
Elongation at Break	>10%
Hardness, Rockwell R	118
Notched Izod Impact Strength,ft-lb/in	12

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.