

Technical Data Sheet
Lucent PC PC/ABS-FR5X
Polycarbonate + ABS
Engineering Plastics



Product Description

PC/ABS-FR5X is a flame retardant - V0/5VB, heat stabilized, impact modified grey PC/ABS compound. It is well suited for injection molding applications.

PC/ABS
, UL Recognized 94 V-0, 94 5VA
UL File Number: E51193

UV Stable/Weatherable, f1 Rated - Colors Available. Elevated RTI - 105°C

General

UL File Number	• E51193
Appearance	• Colors Available

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	21 g/10 min	21 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in (3.18 mm))	6.0E-3 to 8.0E-3 in/in	0.60 to 0.80 %	
Outdoor Suitability	f1	f1	UL 746C
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	348000 psi	2400 MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	9010 psi	62.1 MPa	
Break	6960 psi	48.0 MPa	
Tensile Elongation			ASTM D638
Yield	3.8 %	3.8 %	
Break	> 60 %	> 60 %	
Flexural Modulus	375000 psi	2590 MPa	ASTM D790
Flexural Strength	13100 psi	90.3 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	5.0 ft·lb/in²	11 kJ/m²	
73°F (23°C)	9.5 ft·lb/in²	20 kJ/m²	
Notched Izod Impact			ASTM D256
-22°F (-30°C)	2.3 ft·lb/in	120 J/m	
73°F (23°C), 0.125 in (3.18 mm)	6.5 ft·lb/in	350 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	122	122	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	271 °F	133 °C	
264 psi (1.8 MPa), Unannealed	250 °F	121 °C	
Vicat Softening Temperature	280 °F	138 °C	ASTM D1525 ¹
CLTE			ASTM E831
Flow : -40 to 203°F (-40 to 95°C)	3.4E-5 in/in/°F	6.1E-5 cm/cm/°C	
Transverse : -40 to 203°F (-40 to 95°C)	3.5E-5 in/in/°F	6.3E-5 cm/cm/°C	
RTI Elec	221 °F	105 °C	UL 746
RTI Imp	221 °F	105 °C	UL 746
RTI Str	221 °F	105 °C	UL 746

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Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	4.6E+15 ohms·cm	4.6E+15 ohms·cm	ASTM D257

Notes

¹ Rate A (50°C/h), Loading 2 (50 N)

Notes

These are typical property values not to be construed as specification limits.