

Technical Data Sheet
Lucent PC PC/PBT-FR5
Polycarbonate + PBT
Engineering Plastics



Product Description

Flame Retardant Polycarbonate+PBT

Natural and Colors Available

Add "R" for Added Release

Add "U" for UV Stabilizer

UL Listed f1, 5VA at 3.0 mm, V-0 at 1.5 mm

General

Additive	• Flame Retardant		
Features	• Flame Retardant		
Appearance	• Colors Available	• Natural Color	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.30	1.30 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	25 g/10 min	25 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in (3.18 mm))	7.0E-3 in/in	0.70 %	
Outdoor Suitability	f1	f1	UL 746C

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	7690 psi	53.0 MPa	ASTM D638
Tensile Elongation (Break)	50 %	50 %	ASTM D638
Flexural Modulus	308000 psi	2120 MPa	ASTM D790
Flexural Strength	10600 psi	73.1 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-40°F (-40°C), 0.125 in (3.18 mm)	3.5 ft·lb/in	190 J/m	
73°F (23°C), 0.125 in (3.18 mm)	10 ft·lb/in	530 J/m	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	210 °F	98.9 °C	

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	V-0	V-0	
0.12 in (3.0 mm)	5VA	5VA	

Notes

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