

UNICAR® SSFX02

Polycarbonate
Nytel Plastics, Ltd.

Message:

UNICAR SSFX02 extruded thermoplastic shapes offer end users the high impact strength of polycarbonate coupled with EMI/RF shielding and electrical conductivity. Additionally, this material offers a UL 94 V-0 rating at 2.10 mm.

This extruded shape contains uniformly dispersed stainless steel fibers and a nonbrominated, non-chlorinated flame retardant.

UNICAR SSFX02 is available in multiple rod and plate configurations by special order and is especially well suited for RF filters and specialty equipment housing applications requiring electrical shielding.

General Information	
Additive	Flame Retardant
Features	Bromine Free
	Chlorine Free
	Electrically Conductive
	Electromagnetic Shielding (EMI)
	Flame Retardant
	High Impact Resistance
	Radio Frequency Shielding (RFI)
Uses	Electrical Parts
	Housings
	Radiation Shielding
Forms	Preformed Parts
	Rod

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	57.0	MPa	
Break	55.0	MPa	
Tensile Strain			ISO 527-2
Yield	3.8	%	
Break	4.0 to 8.0	%	
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Unnotched Izod Impact	1800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	136	°C	
1.8 MPa, Unannealed	125	°C	
Glass Transition Temperature	143	°C	ASTM D3418
CLTE - Flow	6.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+4	ohms·cm	ASTM D257
Shielding Effectiveness (3.00 mm)	40 to 50	dB	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.10 mm)	V-0		UL 94

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Recommended distributors for this material

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