



Although documentation from Polycase will say that General Electric Cycolac FXS630SK was used to mold Metallic Blue products, there is not a GE material data sheet of Cycolac FXS630SK. There is only a data sheet available from GE for Cycolac MGX45FR. Cycolac FXS630SK & Cycolac MGX45FR are exactly the same material.

Listed below is a message from GE regarding the nomenclature of the Cycolac ABS that is used for Polycase Metallic Blue enclosures.

"Hello Brad,  
the Cycolac team had a nomenclature change per team leader:  
when asked for data sheet on  
FXS630SK

No....I don't have one either, but  
FXS630SK and MGX45FR are exactly  
the same thing and there is a data  
sheet on the MGX45FR."

Also note that the UL Yellow Card lists both "MGX45FR" & "FXS630SK".

Finally, the metal flakes in the material are not conductive & do not serve as a source of EMI/RFI shielding.

Thank you,  
Polycase Engineering



CYCOLAC® MGX45FR
Americas: COMMERCIAL

FR ABS, MAGIX technology for visual effects. Uses include computers, set-top boxes, and other electronic enclosures.

Table with 4 columns: TYPICAL PROPERTIES 1, TYPICAL VALUE, UNIT, STANDARD. Rows include MECHANICAL, IMPACT, THERMAL, PHYSICAL, ELECTRICAL, and FLAME CHARACTERISTICS.

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity.

2) Only typical data for material selection purpose. Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
4) Own measurement according to UL.

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**GE PLASTICS AMERICAS**

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Material Designation: **MGX45FR(GG), FXS630SK**

Product Description: Acrylonitrile Butadiene Styrene (ABS), flame retardant, designated "Cyclac" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	2.3	V-1, 5VB	3	2	60	60	60	-	-
	3.0	V-0, 5VB	3	2	60	60	60	-	-
<b>CTI: 2</b>		<b>HVTR: -</b>		<b>D495: -</b>			<b>IEC Ball Pressure (°C): -</b>		
<b>Dielectric Strength (kV/mm): 24</b>		<b>Volume Resistivity (10<sup>10</sup>ohm-cm): 16</b>				<b>Dimensional Stability (%): 0</b>			
<b>ISO Tensile Strength (MPa): -</b>		<b>ISO Flexural Strength (MPa): -</b>				<b>ISO Heat Deflection (°C): -</b>			
<b>ISO Tensile Impact (kJ/m<sup>2</sup>): -</b>		<b>ISO Izod Impact (kJ/m<sup>2</sup>): -</b>				<b>ISO Charpy Impact (kJ/m<sup>2</sup>): -</b>			

(GG) Denotes a global grade as covered in Recognized Component File E161759.

NOTE Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or numeric/alpha combination.

Report Date: 5/25/1998

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.