

# Lifoflex® UV FLAM 40600

Thermoplastic Elastomer

Müller Kunststoffe GmbH

Message:

Lifoflex FLAM are a range of halogen-free flame retardant thermoplastic elastomers (TPEs) designed to meet the most demanding applications where resistance to ignition and burning are important features.

Lifoflex FLAM compounds contain additives to give them better resistance to burning compared to general TPE grades. The range includes halogen, chlorine and antimony free grades which are low smoke and compliant with the Restriction of Hazardous Substances (RoHS) directives, offering flame retardancy without the use of polybrominated diphenyl ether (PBDE).

General Information			
Additive	Flame retardancy		
Features	Chlorine Free		
	Low smoke		
	Good flexibility		
	Good adhesion		
	Halogen-free		
	No antimony		
	Flame retardancy		
Uses	Wire and cable applications		
	Electronic insulation		
	Washer		
	Washer		
	Reflector		
	Connector		
	Profile		
Agency Ratings	EU 2003/11/EC		
RoHS Compliance	RoHS compliance		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	40		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (Yield)	2.70	MPa	DIN 53504
Tensile Elongation - Across Flow (Break)	650	%	DIN 53504
Compression Set			ISO 815

23°C, 72 hr	24	%	ISO 815
70°C, 22 hr	54	%	ISO 815
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
	850		

Glow Wire Ignition Temperature (3.00 mm)	650	°C	IEC 60695-2-13
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Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 - 3.0	hr
Rear Temperature	170 - 180	°C
Middle Temperature	180 - 190	°C
Front Temperature	190 - 200	°C
Nozzle Temperature	200 - 210	°C
Mold Temperature	15.0 - 50.0	°C

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 160	°C
Cylinder Zone 2 Temp.	160 - 170	°C
Cylinder Zone 3 Temp.	170 - 180	°C
Cylinder Zone 4 Temp.	180 - 190	°C
Die Temperature	180 - 200	°C

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