

FLEXITEQ™ F90A590

Thermoplastic Vulcanizate

Marplex Australia Pty. Ltd.

Message:

FLEXITEQ™ F90A590 is a flame retardant material developed based on Santoprene™ rubber technology. It is designed to provide excellent flame retardancy to meet the required Oxygen Index test whilst retaining the usual benefits of the Santoprene material providing outstanding properties including soft-touch, good colourability and good mouldability. FLEXITEQ™ F90A590 is developed for extrusion applications. It has good process thermal stability owing to very stable flame retardant system which complies with the European RoHS requirement.

Note: The letters "UV" or "W" indicate additional UV stabilisation [ie: FLEXITEQ™ F90A590UV].

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Colorability		
	Good Moldability		
	Good Thermal Stability		
	Soft		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	95		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	6.00	MPa	ASTM D412
Tensile Strength ² (Break)	5.00	MPa	ASTM D412
Tensile Elongation ³ (Break)	300	%	ASTM D412
Tear Strength ⁴ (23°C)	35.0	kN/m	ASTM D624
Compression Set ⁵ (23°C, 70 hr)	60	%	ASTM D395B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Glow Wire Flammability Index (1.60 mm)	960	°C	AS/NZS 60695.2.12
Extrusion	Nominal Value	Unit	
Drying Temperature	75.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Cylinder Zone 1 Temp.	160 to 190	°C	
Cylinder Zone 2 Temp.	180 to 210	°C	
Cylinder Zone 3 Temp.	180 to 210	°C	
Cylinder Zone 4 Temp.	180 to 210	°C	
Cylinder Zone 5 Temp.	180 to 210	°C	

Melt Temperature	180 to 210	°C
NOTE		
1.	Die C, 500 mm/min	
2.	Die C, 500 mm/min	
3.	Die C, 500 mm/min	
4.	Die C, 500 mm/min	
5.	Type 2	

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