Shin-Etsu Silicone

Fluorosilicone Rubber Compound with Enhanced Fuel Resistance

FE-2861-U

1 Features

FE-2861-U has even greater resistance to Fuel C and other fuels than that typical of regular fluorosilicone.

2 General properties

Item \ Product name		FE-2861-U	FE-261-U (Regular grade)
Appearance		Grayish white	Pale yellow
Density	g/cm^3	1.67	1.42
Hardness Durometer A		64	62
Tensile strength	MPa	6.1	9.5
Elongation at break	%	230	390
Compression set 150°C x 70 h	%	6	8
Oil resistance IRM903: 150°C/70 h			
Volume change	%	+1	+4
Fuel resistance Fuel C: 23°C x 70 h			
Change in hardness (points)		-9	-12
Change in tensile strength	%	-23	-29
Change in elongation at break	%	-9	-15
Volume change	%	+15	+22
Fuel resistance Fuel C: 40°C x 24 h			
Volume change	%	+16	+25
CE-20 resistance: 23°C x 70 h			
Change in hardness (points)		-12	-13
Change in tensile strength	%	-36	-60
Change in elongation at break	%	-25	-45
Volume change	%	+16	+25
CE-20 resistance: 40°C x 24 h			
Volume change	%	+18	+28
CE-20 resistance: 40°C x 70 h			
Volume change	%	+19	+28

(Not specified values)

✻ CE-20: Fuel C: Ethanol=80: 20 ✻ Curing agent: C-8A/0.8 parts
✻ Press-cure 165°C x 10min, Post-cure 200°C x 4 h

3 Packaging

20 kg package/box

4 Additional information

When fluorosilicone rubber is heated in air to temperatures over 150°C, trace amounts of highly toxic vapors of trifluoropropionaldehyde may be released. In such cases, be sure to use local exhaust systems or take other steps to ensure adequate ventilation.

Read the Safety Data Sheet (SDS) before using the product.

https://www.shinetsusilicone-global.com/

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