DAIKIN | Positively Innovative

Fluoroelastomer

DAI-EL G-952

TECHNICAL DATASHEET

DAI-EL G-952 is a fluoroelastomer which provides excellent mechanical properties and resistance to steam and acids.

Introduction

- DAI-EL G-952 is a peroxide curable terpolymer of vinylidene fluoride, tetrafluoroethylene and hexafluoropropylene which is suitable for transfer and compression molding.
- It provides excellent **mechanical properties** and **resistance to steam and acids** and a good balance of **chemical resistance** and **low temperature flexibility**.

General physical properties—Product[*1]

Items	Data	Test method
Color	Translucent to pale yellow	Visual observation
Fluorine Content	69 mass%	—
Specific Gravity (23°C)	1.87	ASTM D792
Mooney Viscosity (ML_{1+10})	80 (100°C), 40 (121°C)	ASTM D1646
Solubility	Soluble in lower ketones and esters	—

General physical properties—Vulcanizate[*1*2]

Items	Units	Numeric Value	Test method
100% Tensile Stress	MPa	2.3	ASTM D412
Tensile Strength	MPa	22.2	ASTM D412
Elongation at Break	%	320	ASTM D412
Compression Set	%	23	70hrs@200°C, 25% compression[*3]
Hardness (Shore A)	—	65 (peak), 62 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-14	ASTM D1329

[*1] The above values are representative and not guaranteed.

[*2] [Formula] DAI-EL G-952: 100 phr, MT carbon black (N990): 20 phr, Triallylisocyanurate (100% active): 4 phr, 2,5-dimethyl-2,5-di(t-butylperoxy)hexane (100% active): 1.5 phr, [Curing condition] Press cure: 10min@160°C, Post cure: 4hrs@180°C.

[*3] P-24 O-ring.

Handling method/Safety information

- Be sure to read the notes on SDS and labels before use.
- This product is intended for general industry, and therefore its adequacy and safety as a raw material for medical purposes cannot be guaranteed.

Packing specification

- 20kg

tds-g-952-E_ver01_Apr_2018