

Fluoroelastomer DAI-EL GBR-6005

 TECHNICAL
DATASHEET

DAI-EL GBR-6005 is a fluoroelastomer which provides excellent resistance to amines and bases with good processability, compression set and resistance to steam and acids.

Introduction

- DAI-EL GBR-6005 is a peroxide curable copolymer of vinylidene fluoride and 2,3,3,3-tetrafluoropropylene, which provides excellent **resistance to amines and bases** such as engine coolants, lubricating oils, some oil & gas drilling fluids and other high pH environments.
- It offers superior **processability, compression set** and **resistance to steam and acids** compared with other base resistant fluoroelastomers.

General physical properties—Product*1

Items	Data	Test method
Color	White to milky white	Visual observation
Fluorine Content	62 mass%	—
Specific Gravity (23°C)	1.72	ASTM D792
Mooney Viscosity (ML ₁₊₁₀)	99 (100°C), 60 (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	1.7	ASTM D412
Tensile Strength	MPa	19.5	ASTM D412
Elongation at Break	%	550	ASTM D412
Compression Set	%	30	70hrs@200°C, 25% compression*3
Hardness (Shore A)	—	63 (peak), 58 (3sec)	ASTM D2240
Low Temperature Retraction (TR10)	°C	-12	ASTM D1329

*1 The above values are representative and not guaranteed.

*2 [Formula] DAI-EL GBR-6005: 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

For more information, visit our website.

DAIKIN INDUSTRIES, LTD.

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