TECHNICAL DATA SHEET

DAI-EL® G-558

Characteristics

DAI-EL® G-558 is a bisphenol cure incorporated terpolymer designed for extrusion applications requiring moderate fuel resistance.

Properties*	Value
Fluorine content	69%
Specific gravity	1.87
Mooney viscosity (ML1+10@121°C)	34
Color	Milky White Sheet
Solubility	Soluble in lower ketones and esters

^{*}Typical properties are not suitable for specification purposes.

Typical Applications

Hoses, tubes

Form & Packaging

DAI-EL® G-558 is packaged as slabs with polyethylene film separators sealed in a polyethylene bag. The standard shipping container is a 20 kg (44 lb) net weight carton.

Safety

- (1) Store and use all fluoroelastomers in a well-ventilated area.
- (2) Do not smoke in areas contaminated with dust from fluoroelastomers.
- (3) Avoid eye contact.
- (4) After handling, wash any skin that came in contact with the product with soap & water.

Potential hazards, including evolution of toxic vapors, exist during compounding or processing under high temperatures. Before processing Daikin fluoroelastomers, consult the SDS (Safety Data Sheet) and follow all label directions and handling precautions. Read and follow all directions from other compound ingredient suppliers. Mixing agents that contain metallic particulate such as powdered aluminum can rapidly decompose at high temperatures, and therefore should not be used with this product.

TDS-G-011 REV 1 11/23/16

Typical Compound Properties

Test Formula	phr
DAI-EL® G-558	100
MT Carbon Black (N-990)	30
Magnesium Oxide	3
Calcium Hydroxide	6

Rheological Properties	MDR 2000
Temperature: 190°C Frequency: 100 cpm	Strain: 0.5° Test time: 6 min
ML (minimum torque), lb-in (dNm)	2.1 (2.4)
MH (maximum torque), lb-in (dNm)	10.9 (12.3)
t _s 2 (scorch time), minutes	0.6
t'50 (time to 50% cure), minutes	0.8
t'90 (time to 90% cure), minutes	1.8

Physical Properties		
Press Cure Post Cure	10 min @ 190 °C 24 hrs @ 232 °C	
Hardness, Shore A	74	
Tensile strength, MPa (psi)	11.7 (1700)	
Elongation at break, %	270	
100% Tensile Stress, MPa (psi)	4.1 (600)	
Compression Set, ASTM D395 Method B (#214 O-ring)		
70 hours @ 175°C (347°F), %	23	
70 hours @ 200°C (392°F), %	29	

Low Temperature Properties		
Embrittlement Temperature, °C	-26	
Gehman Torsion ASTM 1053-92A		
T ₂ , °C	-4.0	
T ₁₀ , °C	-13.5	
Temperature Retraction		
TR ₁₀ , °C	-14.0	
TR ₇₀ , °C	-8.0	

Air Oven Aging – 70 hours @ 250°C		
Tensile strength change, %	-23.2	
Elongation change, %	14.0	
Hardness change	-1.0	

Daikin America / www.daikin-america.com / 845-365-9500 / 1-800-365-9570

All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated, or that other measures may not be required. This product is not specifically designed or manufactured for use in implantable medical and/or dental devices. We have not tested it for such application and will only sell it for such use pursuant to contract containing specific terms and conditions required by DAIKIN.

DAIKIN AMERICA, INC.

20 Olympic Drive Orangeburg, NY 10962 Customer Service: 800-365-9570 Fax: 845-365-9598 http://www.daikin-america.com

DAIKIN INDUSTRIES, LTD.

Umeda Center Building 2-4-12 Nakasaki-Nishi, Kita-Ku Osaka 530-8323 Japan Phone: +81-6-67374-9355 Fax: +81-6-6374-4281 http://www.daikin.com

DAIKIN CHEMICAL EUROPE GmbH

Immermannstr, 65D 40210 Dusseldorf, Germany Phone: +49-211-1792250 Fax: +49-211-1640732

TDS-G-011 REV 1 11/23/16