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.

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_s2 (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

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