

DAI-EL™ LT-271

Fluoroelastomer

DAIKIN AMERICA, INC.

Message:

DAI-EL LT-271 is a terpolymer suitable for various peroxide cure systems. LT-271 can be formulated to eliminate the post cure process. LT-271 is designed for transfer and compression molding applications that require a balance between good low temperature flexibility and fuel resistance.

| General Information | | | |
|--------------------------------------|---------------------------------|-------------------|-------------|
| Features | Flexibility at low temperatures | | |
| | Fuel resistance | | |
| | Terpolymer | | |
| Uses | Washer | | |
| | Seals | | |
| Appearance | White | | |
| | Pink | | |
| Forms | Particle | | |
| Processing Method | Compression molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.82 | g/cm ³ | ASTM D792 |
| Mooney Viscosity (ML 1+10, 121°C) | 30 | MU | ASTM D1646 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 71 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 2.80 | MPa | ASTM D412 |
| Tensile Strength (Yield) | 18.0 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 330 | % | ASTM D412 |
| Compression Set (200°C, 70 hr) | 30 | % | ASTM D395 |
| Aging | Nominal Value | Unit | Test Method |
| Change in Tensile Strength in Air | | | ASTM D573 |
| 200°C, 70 hr | -5.0 | % | ASTM D573 |
| 230°C, 70 hr | -31 | % | ASTM D573 |
| Change in Ultimate Elongation in Air | | | ASTM D573 |
| 200°C, 70 hr | -7.0 | % | ASTM D573 |
| 230°C, 70 hr | 0.0 | % | ASTM D573 |
| Change in Durometer Hardness in Air | | | ASTM D573 |
| Support a, 200°C, 70 hr | 1.0 | | ASTM D573 |
| Support a, 230°C, 70 hr | 1.0 | | ASTM D573 |

Additional Information

All tests performed were performed under DAIKIN test methods
Fluorine Content: 66%
Curing characteristic, Measuring Temperature: 160°C
Curing characteristic, Curelastomer: 2.7 min
Curing characteristic, Measuring Temperature: 177°C
Curing characteristic, Curelastomer: 0.9 min
TR test, TR10: -27°C

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