

# DAI-EL™ G-901

Fluoroelastomer

DAIKIN AMERICA, INC.

## Message:

DAI-EL G-901 is a terpolymer suitable for various peroxide cure systems. G-901 can be formulated to eliminate the post cure process. G-901 is suitable for transfer and compression molding applications requiring excellent chemical and steam resistance.

| General Information |                          |
|---------------------|--------------------------|
| Features            | Good Chemical Resistance |
|                     | Steam Resistant          |
|                     | Terpolymer               |
| Uses                | Gaskets                  |
|                     | Seals                    |
| Appearance          | Pink                     |
|                     | White                    |
| Forms               | Pellets                  |
| Processing Method   | Compression Molding      |
|                     | Resin Transfer Molding   |

| Physical                           | Nominal Value | Unit              |
|------------------------------------|---------------|-------------------|
| Specific Gravity                   | 1.87 to 1.91  | g/cm <sup>3</sup> |
| Mooney Viscosity (ML 1+10, 121°C)  | 48            | MU                |
| Fluorine Content                   | 71            | %                 |
| Cure Temperature                   | 160           | °C                |
| Cure Time - Curelastmeter          | 3.0           | min               |
| Gehman Torsion Test                |               |                   |
| T10                                | -5            | °C                |
| T2                                 | -1            | °C                |
| TR Test                            |               |                   |
| TR10                               | -8            | °C                |
| TR70                               | -2            | °C                |
| Hardness                           | Nominal Value | Unit              |
| Durometer Hardness (Shore A, 25°C) | 70            |                   |
| Elastomers                         | Nominal Value | Unit              |
| Tensile Stress (100% Strain, 25°C) | 2.80          | MPa               |
| Tensile Strength (Yield, 25°C)     | 22.0          | MPa               |
| Tensile Elongation (Break, 25°C)   | 320           | %                 |

|                                                             |               |      |
|-------------------------------------------------------------|---------------|------|
| Tear Strength (25°C)                                        | 19.6          | kN/m |
| Compression Set                                             |               |      |
| 25°C, 70 hr                                                 | 13            | %    |
| 100°C, 70 hr                                                | 12            | %    |
| 175°C, 70 hr                                                | 18            | %    |
| 200°C, 70 hr                                                | 32            | %    |
| Aging                                                       | Nominal Value | Unit |
| Change in Tensile Strength in Air (230°C, 70 hr)            | -22           | %    |
| Change in Ultimate Elongation in Air (230°C, 70 hr)         | 13            | %    |
| Change in Durometer Hardness in Air (Shore A, 230°C, 70 hr) | -1.0          |      |
| Thermal                                                     | Nominal Value | Unit |
| Brittleness Temperature                                     | -26.0         | °C   |

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