

# ALFATER XL® D50I 2GP0050

Thermoplastic Vulcanizate

ALBIS PLASTIC GmbH

Message:

ALFATER XL® D50I 2GP0050 is a Thermoplastic Vulcanizate (TPV) product. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of ALFATER XL® D50I 2GP0050 include automotive, caps/lids/closures, construction applications, engineering/industrial parts and furniture.

Characteristics include:

REACH Compliant

RoHS Compliant

Good Weather Resistance

| General Information                         |                           |                   |             |
|---|---------------------------|-------------------|-------------|
| Features                                    | Alkali Resistant          |                   |             |
|   | Good Weather Resistance   |                   |             |
|   | Ozone Resistant           |                   |             |
| Uses  | Automotive Applications   |                   |             |
|   | Caps                      |                   |             |
|   | Construction Applications |                   |             |
|   | Furniture                 |                   |             |
|   | Handles                   |                   |             |
|   | Knobs                     |                   |             |
|   | Seals                     |                   |             |
| Agency Ratings                              | EC 1907/2006 (REACH)      |                   |             |
| RoHS Compliance                             | RoHS Compliant            |                   |             |
| Processing Method                           | Injection Molding         |                   |             |
| Physical                                    | Nominal Value             | Unit              | Test Method |
| Density                                     | 0.970                     | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                                    | Nominal Value             | Unit              | Test Method |
| Shore Hardness (Shore D)                    | 50                        |                   | ISO 868     |
| Mechanical                                  | Nominal Value             | Unit              | Test Method |
| Tensile Stress (100% Strain)                | 14.0                      | MPa               | ISO 527-2   |
| Elastomers                                  | Nominal Value             | Unit              | Test Method |
| Tensile Stress (Yield)                      | 18.8                      | MPa               | ISO 37      |
| Tensile Elongation (Break)                  | 610                       | %                 | ISO 37      |
| Tear Strength                               | 88                        | kN/m              | ISO 34-1    |
| Compression Set <sup>1</sup> (100°C, 22 hr) | 81                        | %                 | ISO 815     |
| Thermal                                     | Nominal Value             | Unit              |             |
| Service Temperature                         | -40 to 125                | °C                |             |
| Injection                                   | Nominal Value             | Unit              |             |

|                        |              |    |
|------------------------|--------------|----|
| Drying Temperature     | 70.0 to 80.0 | °C |
| Drying Time            | 2.0 to 4.0   | hr |
| Processing (Melt) Temp | 195 to 215   | °C |
| Mold Temperature       | 10.0 to 70.0 | °C |
| Injection Rate         | Fast         |    |
| NOTE                   |              |    |
| 1.                     | 25%          |    |

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WECHAT