

# Alcryn® 2370 BK

Melt Processable Rubber

Advanced Polymer Alloys

## Message:

Alcryn® 2370 BK is a Melt Processable Rubber (MPR) material. It is available in Asia Pacific, Europe, or North America.

Important attributes of Alcryn® 2370 BK are:

RoHS Compliant

WEEE Compliant

| General Information               |                      |                   |                     |
|-----------------------------------|----------------------|-------------------|---------------------|
| Agency Ratings                    | EU 2002/96/EC (WEEE) |                   |                     |
| RoHS Compliance                   | RoHS Compliant       |                   |                     |
| Appearance                        | Black                |                   |                     |
| Forms                             | Pellets              |                   |                     |
| Physical                          | Nominal Value        | Unit              | Test Method         |
| Specific Gravity                  | 1.16                 | g/cm <sup>3</sup> | ASTM D792, ISO 1183 |
| Hardness                          | Nominal Value        | Unit              | Test Method         |
| Durometer Hardness (Shore A)      | 70                   |                   | ASTM D2240, ISO 868 |
| Elastomers                        | Nominal Value        | Unit              | Test Method         |
| Tensile Set                       | 11                   | %                 | ASTM D412           |
| Tensile Stress (100% Strain)      | 3.31                 | MPa               | ASTM D412, ISO 37   |
| Tensile Strength (Yield)          | 9.65                 | MPa               | ASTM D412, ISO 37   |
| Tensile Elongation (Break)        | 500                  | %                 | ASTM D412, ISO 37   |
| Tear Strength                     |                      |                   |                     |
| 24°C <sup>1</sup>                 | 29.8                 | kN/m              | ASTM D624           |
| 24°C                              | 30                   | kN/m              | ISO 34-1            |
| Compression Set                   |                      |                   |                     |
| 24°C, 22 hr                       | 16                   | %                 | ASTM D395A          |
| 100°C, 22 hr                      | 68                   | %                 | ASTM D395A          |
| 24°C, 22 hr <sup>2</sup>          | 16                   | %                 | ISO 815             |
| 100°C, 22 hr <sup>3</sup>         | 68                   | %                 | ISO 815             |
| Aging                             | Nominal Value        | Unit              | Test Method         |
| Change in Tensile Strength in Air |                      |                   |                     |
| 125°C, 168 hr                     | 110                  | %                 | ASTM D573, ISO 188  |
| 100% Strain, 125°C, 168 hr        | 93                   | %                 | ASTM D573           |
| 100% Strain 125°C, 168 hr         | 93                   | %                 | ISO 188             |
| Change in Volume                  |                      |                   |                     |
| 100°C, 168 hr, in ASTM Oil #1     | 8.0                  | %                 | ASTM D471           |
| 100°C, 168 hr, in IRM 903 Oil #3  | 22                   | %                 | ASTM D471           |
| 100°C, 168 hr, in Water           | -19                  | %                 | ASTM D471, ISO 1817 |
| 100°C, 168 hr, in ASTM #1 Oil     | 8.0                  | %                 | ISO 1817            |

|                                                    |               |      |             |
|----------------------------------------------------|---------------|------|-------------|
| 100°C, 56880 hr, in IRM 903 Oil #3                 | 22            | %    | ISO 1817    |
| Fill Analysis                                      | Nominal Value | Unit | Test Method |
| Apparent Viscosity (190°C, 300 sec <sup>-1</sup> ) | 560           | Pa·s | ASTM D3835  |
| Injection                                          | Nominal Value | Unit |             |
| Processing (Melt) Temp                             | 177           | °C   |             |
| NOTE                                               |               |      |             |
| 1.                                                 | Die C         |      |             |
| 2.                                                 | Type A        |      |             |
| 3.                                                 | Type A        |      |             |

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