

# ESPOLEX 820

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

## Message:

ESPOLEX 820 is a Thermoplastic Polyolefin Elastomer (TPO (POE)) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of ESPOLEX 820 include additive/masterbatch, automotive, hose/tubing and sheet.

| General Information                       |                         |                   |             |
|-------------------------------------------|-------------------------|-------------------|-------------|
| Uses                                      | Automotive Applications |                   |             |
|                                           | Blending                |                   |             |
|                                           | Hose                    |                   |             |
|                                           | Sheet                   |                   |             |
| Processing Method                         | Injection Molding       |                   |             |
| Physical                                  | Nominal Value           | Unit              | Test Method |
| Density                                   | 0.880                   | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.50                    | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value           | Unit              | Test Method |
| Shore Hardness (Shore A)                  | 78                      |                   | ISO 868     |
| Mechanical                                | Nominal Value           | Unit              | Test Method |
| Flexural Modulus                          | 24.0                    | MPa               | ISO 178     |
| Elastomers                                | Nominal Value           | Unit              | Test Method |
| Tensile Stress <sup>1</sup> (100% Strain) | 3.80                    | MPa               | ISO 37      |
| Tensile Stress <sup>2</sup> (Break)       | 12.0                    | MPa               | ISO 37      |
| Tensile Elongation <sup>3</sup> (Break)   | 860                     | %                 | ISO 37      |
| Compression Set <sup>4</sup>              |                         |                   | ISO 37      |
| 23°C, 22 hr                               | 43                      | %                 |             |
| 70°C, 22 hr                               | 92                      | %                 |             |
| Thermal                                   | Nominal Value           | Unit              | Test Method |
| Brittleness Temperature (Type A)          | < -60.0                 | °C                | ISO 812     |
| Injection                                 | Nominal Value           | Unit              |             |
| Processing (Melt) Temp                    | 188 to 238              | °C                |             |
| NOTE                                      |                         |                   |             |
| 1.                                        | Type 1A, 500 mm/min     |                   |             |
| 2.                                        | Type 1A, 500 mm/min     |                   |             |
| 3.                                        | Type 1A, 500 mm/min     |                   |             |
| 4.                                        | Type A                  |                   |             |

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