

# Unipren® Elastomers B3 PRTA010 40A UP312

Polypropylene + EPDM Rubber

Petropol Industry and Trade of Polymers LTDA

## Message:

Thermoplastic compound based on EPDM with PP (TPE-V) dynamically vulcanized, suitable for high performance applications where outdoor exposure or resistance to high temperature (135°C) are important requirements.

| General Information                     |                         |                   |             |
|---|-------------------------|-------------------|-------------|
| Features                                | Good Weather Resistance |                   |             |
|   | High Heat Resistance    |                   |             |
| Resin ID (ISO 1043)                     | >TPE<                   |                   |             |
| Physical                                | Nominal Value           | Unit              | Test Method |
| Specific Gravity                        | 0.990                   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                | 2.0 to 3.0              | %                 | ASTM D955   |
| Hardness                                | Nominal Value           | Unit              | Test Method |
| Durometer Hardness (Shore A)            | 37 to 43                |                   | ASTM D2240  |
| Elastomers                              | Nominal Value           | Unit              | Test Method |
| Tensile Stress <sup>1</sup>             |                         |                   | ASTM D412   |
| 100% Strain                             | 1.20                    | MPa               |             |
| 300% Strain                             | 2.30                    | MPa               |             |
| Tensile Strength <sup>2</sup> (Break)   | 4.50                    | MPa               | ASTM D412   |
| Tensile Elongation <sup>3</sup> (Break) | 550                     | %                 | ASTM D412   |
| Tear Strength <sup>4</sup>              | 20.0                    | kN/m              | ASTM D624   |
| Compression Set (70°C, 22 hr)           | 31                      | %                 | ASTM D395B  |
| Injection                               | Nominal Value           | Unit              |             |
| Drying Temperature                      | 80.0                    | °C                |             |
| Drying Time                             | 2.0                     | hr                |             |
| Processing (Melt) Temp                  | 180 to 200              | °C                |             |
| Mold Temperature                        | 25.0 to 50.0            | °C                |             |
| NOTE                                    |                         |                   |             |
| 1.                                      | Die C                   |                   |             |
| 2.                                      | Die C                   |                   |             |
| 3.                                      | Die C                   |                   |             |
| 4.                                      | Die C                   |                   |             |

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