



## PRIMEVA® P18010

### REPSOL - Ethylene Vinyl Acetate Copolymer

Sunday, November 3, 2019

#### General Information

##### Product Description

EVA copolymer REPSOL PRIMEVA® P18010 is suitable for injection moulding and recommended for those applications where flexibility and toughness are required. It contains antioxidant additives.

##### Applications:

- Injection moulding. Release agents containing silicone must be avoided.
- Rotational moulding.

Recommended melt temperature below 200°C to avoid the decomposition of the polymer. Processing conditions should be optimised for each production line.

##### General

|                   |                                          |                                                 |                  |
|-------------------|------------------------------------------|-------------------------------------------------|------------------|
| Material Status   | • Commercial: Active                     |                                                 |                  |
| Availability      | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America                     | • North America  |
| Additive          | • Antioxidant                            |                                                 |                  |
| Features          | • Antioxidant<br>• Copolymer             | • Food Contact Acceptable<br>• Good Flexibility | • Good Toughness |
| Agency Ratings    | • EU Food Contact, Unspecified Rating    |                                                 |                  |
| Processing Method | • Injection Molding                      | • Rotational Molding                            |                  |

#### ASTM & ISO Properties <sup>1</sup>

| Physical                                              | Nominal Value | Unit              | Test Method     |
|-------------------------------------------------------|---------------|-------------------|-----------------|
| Density (73°F)                                        | 0.937         | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)             | 10            | g/10 min          | ISO 1133        |
| Environmental Stress-Cracking Resistance (ESCR) (F50) | 300           | hr                | ASTM D1693      |
| Vinyl Acetate Content                                 | 18.0          | wt%               | Internal Method |
| Mechanical                                            | Nominal Value | Unit              | Test Method     |
| Tensile Stress (Break)                                | 2320          | psi               | ISO 527-2       |
| Tensile Strain (Break)                                | 700           | %                 | ISO 527-2       |
| Hardness                                              | Nominal Value | Unit              | Test Method     |
| Shore Hardness                                        |               |                   | ISO 868         |
| Shore A                                               | 90            |                   |                 |
| Shore D                                               | 36            |                   |                 |
| Thermal                                               | Nominal Value | Unit              | Test Method     |
| Vicat Softening Temperature                           | 138           | °F                | ISO 306/A       |
| Melting Temperature                                   | 192           | °F                | Internal Method |

#### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Processing (Melt) Temp | 392           | °F   |

##### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.