

# neogol® A80 2 Z005

Thermoplastic Polyolefin Elastomer

API SpA

Message:

neogol® A80 2 Z005 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by co-extrusion molding or injection molding and is available in Europe.

Features include:

Copolymer

good weather resistance

| General Information                      |                         |                   |             |
|--|-------------------------|-------------------|-------------|
| Features                                 | Block Copolymer         |                   |             |
|  | Good weather resistance |                   |             |
| Processing Method                        | Co-extrusion molding    |                   |             |
|  | Injection molding       |                   |             |
| Physical                                 | Nominal Value           | Unit              | Test Method |
| Specific Gravity                         | 0.980                   | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 140                     | g/10 min          | ASTM D1238  |
| Hardness                                 | Nominal Value           | Unit              | Test Method |
| Durometer Hardness (Shore A, 15 sec)     | 80                      |                   | ASTM D2240  |
| Mechanical                               | Nominal Value           | Unit              | Test Method |
| Tensile Strength                         |                         |                   | ASTM D638   |
| --                                       | 5.90                    | MPa               | ASTM D638   |
| 100% strain                              | 3.60                    | MPa               | ASTM D638   |
| 300% strain                              | 4.50                    | MPa               | ASTM D638   |
| Tensile Elongation (Break)               | 850                     | %                 | ASTM D638   |
| Abrasion Resistance                      | 130                     | mm <sup>3</sup>   | DIN 53516   |
| Elastomers                               | Nominal Value           | Unit              | Test Method |
| Tear Strength <sup>1</sup>               | 39.0                    | kN/m              | ASTM D624   |
| Compression Set                          |                         |                   | ASTM D395   |
| 23°C, 72 hr                              | 18                      | %                 | ASTM D395   |
| 70°C, 22 hr                              | 54                      | %                 | ASTM D395   |
| Injection                                | Nominal Value           | Unit              |             |
| Rear Temperature                         | 155 - 175               | °C                |             |
| Middle Temperature                       | 160 - 180               | °C                |             |
| Front Temperature                        | 160 - 180               | °C                |             |
| Nozzle Temperature                       | 165 - 190               | °C                |             |
| Mold Temperature                         | 25 - 40                 | °C                |             |
| Injection Rate                           | Moderate-Fast           |                   |             |

## NOTE

1. With Notch

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