

# SABIC® PPcompound 8536B

Polypropylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® PPcompound 8536B is a development grade, elastomer-modified mineral filled Polypropylene for painted automotive exterior applications. This material has been designed to combine a good performance profile with good processing.

SABIC® PPcompound 8536B is a designated automotive grade.

| General Information                                |                               |                   |                 |
|--|-------------------------------|-------------------|-----------------|
| Filler / Reinforcement                             | Mineral, 13% Filler by Weight |                   |                 |
| Additive   | Impact Modifier               |                   |                 |
| Features   | Good Processability           |                   |                 |
|  | Impact Modified               |                   |                 |
|  | Paintable                     |                   |                 |
| Uses   | Automotive Applications       |                   |                 |
|  | Automotive Exterior Parts     |                   |                 |
| Forms  | Pellets                       |                   |                 |
| Processing Method                                  | Injection Molding             |                   |                 |
| Physical   | Nominal Value                 | Unit              | Test Method     |
| Density  | 0.990                         | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)          | 20                            | g/10 min          | ISO 1133        |
| Molding Shrinkage (24 hr)                          | 0.70                          | %                 | Internal Method |
| Mechanical   | Nominal Value                 | Unit              | Test Method     |
| Tensile Stress                                     |                               |                   | ISO 527-2/5/50  |
| Yield, 3.20 mm, Injection Molded                   | 18.5                          | MPa               |                 |
| Break, 3.20 mm, Injection Molded                   | 13.5                          | MPa               |                 |
| Tensile Strain (Break, 3.20 mm, Injection Molded)  | > 150                         | %                 | ISO 527-2/5/50  |
| Flexural Modulus <sup>1</sup> (Injection Molded)   | 1550                          | MPa               | ASTM D790       |
| Impact   | Nominal Value                 | Unit              | Test Method     |
| Notched Izod Impact Strength                       |                               |                   | ISO 180/4A      |
| -20°C, Injection Molded                            | 10                            | kJ/m <sup>2</sup> |                 |
| 0°C, Injection Molded                              | 60                            | kJ/m <sup>2</sup> |                 |
| 23°C, Injection Molded                             | 60                            | kJ/m <sup>2</sup> |                 |
| Thermal  | Nominal Value                 | Unit              | Test Method     |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 95.0                          | °C                | ISO 75-2/B      |
| CLTE - Flow  |                               |                   | ASTM D696       |
| -30 to 30°C  | 5.5E-5                        | cm/cm/°C          |                 |

|            |        |          |
|------------|--------|----------|
| 23 to 80°C | 6.5E-5 | cm/cm/°C |
| NOTE       |        |          |

1. Method I (3 point load)

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