

# SABIC® PP 532B

Polypropylene Homopolymer

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® PP 532B has a high molecular weight and therefore mainly used for extrusion. It has been provided with a high heat stabilisation package and is typically used for thick sheet in demanding applications.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

| General Information |                         |
|---------------------|-------------------------|
| Additive            | heat stabilizer         |
| Features            | High molecular weight   |
|                     | Homopolymer             |
|                     | Thermal Stability       |
| Uses                | Sheet                   |
| Forms               | Particle                |
| Processing Method   | Extrusion               |
|                     | Sheet extrusion molding |

| Physical                                  | Nominal Value | Unit              | Test Method          |
|-------------------------------------------|---------------|-------------------|----------------------|
| Specific Gravity                          | 0.905         | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.30          | g/10 min          | ASTM D1238, ISO 1133 |
| Hardness                                  | Nominal Value | Unit              | Test Method          |
| Rockwell Hardness (R-Scale)               | 107           |                   | ASTM D785            |
| Durometer Hardness (Shore D)              | 72            |                   | ISO 868              |
| Mechanical                                | Nominal Value | Unit              | Test Method          |
| Tensile Modulus                           |               |                   |                      |
| 1% secant <sup>1</sup>                    | 1800          | MPa               | ASTM D638            |
| --                                        | 1800          | MPa               | ISO 527-2/1A/1       |
| Tensile Strength                          |               |                   |                      |
| Yield <sup>2</sup>                        | 38.0          | MPa               | ASTM D638            |
| Yield                                     | 38.0          | MPa               | ISO 527-2/1A/50      |
| Tensile Elongation                        |               |                   |                      |
| Yield <sup>3</sup>                        | 9.0           | %                 | ASTM D638            |
| Yield                                     | 8.0           | %                 | ISO 527-2/1A/50      |
| Impact                                    | Nominal Value | Unit              | Test Method          |
| Charpy Notched Impact Strength            |               |                   | ISO 179/1eA          |
| -20°C                                     | 2.5           | kJ/m <sup>2</sup> | ISO 179/1eA          |
| 0°C                                       | 3.0           | kJ/m <sup>2</sup> | ISO 179/1eA          |
| 23°C                                      | 6.0           | kJ/m <sup>2</sup> | ISO 179/1eA          |

| Charpy Unnotched Impact Strength (23°C) | No Break                   |                   | ISO 179/1eU                             |
|-----------------------------------------|----------------------------|-------------------|-----------------------------------------|
| Notched Izod Impact                     |                            |                   |                                         |
| -20°C                                   | 25                         | J/m               | ASTM D256A                              |
| 0°C                                     | 35                         | J/m               | ASTM D256A                              |
| 23°C                                    | 60                         | J/m               | ASTM D256A                              |
| -20°C                                   | 2.5                        | kJ/m <sup>2</sup> | ISO 180/1A                              |
| 0°C                                     | 3.0                        | kJ/m <sup>2</sup> | ISO 180/1A                              |
| 23°C                                    | 6.0                        | kJ/m <sup>2</sup> | ISO 180/1A                              |
| Thermal                                 | Nominal Value              | Unit              | Test Method                             |
| Deflection Temperature Under Load       |                            |                   |                                         |
| 0.45 MPa, not annealed                  | 90.0                       | °C                | ASTM D648                               |
| 0.45 MPa, not annealed <sup>4</sup>     | 105                        | °C                | ISO 75-2/Bf                             |
| 1.8 MPa, not annealed                   | 60.0                       | °C                | ASTM D648                               |
| 1.8 MPa, not annealed <sup>5</sup>      | 65.0                       | °C                | ISO 75-2/Af                             |
| Vicat Softening Temperature             |                            |                   |                                         |
| --                                      | 160                        | °C                | ASTM D1525, ISO 306/A120 5 <sup>6</sup> |
| --                                      | 101                        | °C                | ASTM D1525, ISO 306/B120 6 <sup>7</sup> |
| Oxidation Induction Time                |                            |                   |                                         |
| 200°C                                   | > 60                       | min               | ISO 11357-6                             |
| 200°C                                   | > 60                       | min               | ASTM D3895                              |
| NOTE                                    |                            |                   |                                         |
| 1.                                      | 1.0 mm/min                 |                   |                                         |
| 2.                                      | 50 mm/min                  |                   |                                         |
| 3.                                      | 50 mm/min                  |                   |                                         |
| 4.                                      | testbar 80*10*4mm          |                   |                                         |
| 5.                                      | testbar 80*10*4mm          |                   |                                         |
| 6.                                      | 标准 B (120°C/h), 压 力1 (10N) |                   |                                         |
| 7.                                      | 标准 B (120°C/h), 载荷2 (50N)  |                   |                                         |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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