

# SABIC® STAMAX 30YK270

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® STAMAX 30YK270 is a 30% long glass fiber reinforced grade with improved impact and flow properties. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

| General Information                            |                                       |                   |              |
|------------------------------------------------|---------------------------------------|-------------------|--------------|
| Filler / Reinforcement                         | Long Glass Fiber,30% Filler by Weight |                   |              |
| Additive                                       | Impact Modifier                       |                   |              |
| Features                                       | Chemically Coupled                    |                   |              |
|                                                | High Stiffness                        |                   |              |
|                                                | High Strength                         |                   |              |
|                                                | Impact Modified                       |                   |              |
| Uses                                           | Automotive Applications               |                   |              |
| Forms                                          | Pellets                               |                   |              |
| Processing Method                              | Injection Molding                     |                   |              |
| Physical                                       | Nominal Value                         | Unit              | Test Method  |
| Density                                        | 1.12                                  | g/cm <sup>3</sup> | ISO 1183     |
| Mechanical                                     | Nominal Value                         | Unit              | Test Method  |
| Tensile Modulus                                |                                       |                   | ISO 527-2/1B |
| 23°C, Injection Molded                         | 6200                                  | MPa               |              |
| 80°C, Injection Molded                         | 4400                                  | MPa               |              |
| 120°C, Injection Molded                        | 3600                                  | MPa               |              |
| Tensile Stress <sup>1</sup>                    |                                       |                   | ISO 527-2    |
| 23°C, Injection Molded                         | 98.0                                  | MPa               |              |
| 80°C, Injection Molded                         | 60.0                                  | MPa               |              |
| 120°C, Injection Molded                        | 43.0                                  | MPa               |              |
| Tensile Strain (Break, 23°C, Injection Molded) | 2.3                                   | %                 | ISO 527-2/1B |
| Flexural Modulus                               |                                       |                   | ISO 178      |
| 23°C, Injection Molded                         | 5500                                  | MPa               |              |
| 80°C, Injection Molded                         | 3600                                  | MPa               |              |
| Flexural Stress                                |                                       |                   | ISO 178      |
| 23°C, Injection Molded                         | 138                                   | MPa               |              |
| 80°C, Injection Molded                         | 70.0                                  | MPa               |              |
| Impact                                         | Nominal Value                         | Unit              | Test Method  |
| Charpy Notched Impact Strength                 |                                       |                   | ISO 179/1eA  |
| -30°C, Injection Molded                        | 24                                    | kJ/m <sup>2</sup> |              |
| 23°C, Injection Molded                         | 21                                    | kJ/m <sup>2</sup> |              |

| Charpy Unnotched Impact Strength                       |                  |                   | ISO 179/1eU |
|--------------------------------------------------------|------------------|-------------------|-------------|
| -30°C, Injection Molded                                | 70               | kJ/m <sup>2</sup> |             |
| 23°C, Injection Molded                                 | 57               | kJ/m <sup>2</sup> |             |
| Falling Dart Impact - Total Energy <sup>2</sup> (23°C) | 58.0             | J/cm              | ISO 6603-2  |
| Thermal                                                | Nominal Value    | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed)      | 157              | °C                | ISO 75-2/A  |
| CLTE - Flow                                            |                  |                   | ASTM D696   |
| -30 to 30°C                                            | 5.4E-5           | cm/cm/°C          |             |
| 23 to 80°C                                             | 3.7E-5           | cm/cm/°C          |             |
| NOTE                                                   |                  |                   |             |
| 1.                                                     | Type 1B          |                   |             |
| 2.                                                     | Injection Molded |                   |             |

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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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