

# DINALON® A1S25 G35 (Carbon)

Polyamide 66

Grupo Repol

Message:

DINALON® A1S25 G35 (Carbon) is a Polyamide 66 (Nylon 66) product filled with 10% carbon fiber. It is available in Europe.

| General Information                               |                                   |                   |             |
|---------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Carbon Fiber,10% Filler by Weight |                   |             |
| Appearance                                        | Black                             |                   |             |
| Forms                                             | Pellets                           |                   |             |
| Physical                                          | Nominal Value                     | Unit              | Test Method |
| Density                                           | 1.21                              | g/cm <sup>3</sup> | ISO 1183/A  |
| Humidity <sup>1</sup>                             | < 0.25                            | %                 | ISO 15512/B |
| Mechanical                                        | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                                   | 9000                              | MPa               | ISO 527-2   |
| Tensile Stress (Break)                            | 150                               | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | 2.5                               | %                 | ISO 527-2   |
| Flexural Modulus                                  | 7200                              | MPa               | ISO 178     |
| Flexural Stress                                   | 185                               | MPa               | ISO 178     |
| Impact                                            | Nominal Value                     | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)             | 3.0                               | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C)           | 30                                | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                           | Nominal Value                     | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 210                               | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                       | > 230                             | °C                | ISO 306/B   |
| NOTE                                              |                                   |                   |             |
| 1.                                                | Karl-Fischer                      |                   |             |

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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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