

# FERROFLO® SPS20PK01NA

High Impact Polystyrene

Ferro Corporation

## Message:

FERROFLO® SPS20PK01NA is a High Impact Polystyrene material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of FERROFLO® SPS20PK01NA: Lubricated.

| General Information                       |                          |                   |             |
|-------------------------------------------|--------------------------|-------------------|-------------|
| Additive                                  | Silicone Lubricant (20%) |                   |             |
| Features                                  | Lubricated               |                   |             |
| Forms                                     | Pellets                  |                   |             |
| Processing Method                         | Injection Molding        |                   |             |
| Physical                                  | Nominal Value            | Unit              | Test Method |
| Specific Gravity                          | 0.988                    | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 60                       | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                  | 0.80                     | %                 | ASTM D955   |
| Mechanical                                | Nominal Value            | Unit              | Test Method |
| Tensile Strength (23°C)                   | 8.27                     | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 4.0                      | %                 | ASTM D638   |
| Flexural Modulus                          |                          |                   | ASTM D790   |
| 1% Secant : 23°C                          | 827                      | MPa               |             |
| Tangent : 23°C                            | 965                      | MPa               |             |
| Flexural Strength (23°C)                  | 9.65                     | MPa               | ASTM D790   |
| Impact                                    | Nominal Value            | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 27                       | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 53                       | J/m               | ASTM D4812  |
| Gardner Impact (23°C)                     | 0.226                    | J                 | ASTM D5420  |
| Thermal                                   | Nominal Value            | Unit              | Test Method |
| Deflection Temperature Under Load         |                          |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 79.4                     | °C                |             |
| 1.8 MPa, Unannealed                       | 68.3                     | °C                |             |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: [sales@su-jiao.com](mailto:sales@su-jiao.com)

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

