

# Novodur® H802

Acrylonitrile Butadiene Styrene

Styrolution

## Message:

Novodur H802 is a high heat injection molding grade with high stiffness, especially suitable for being painted.

| General Information                         |                         |                        |             |
|---------------------------------------------|-------------------------|------------------------|-------------|
| UL YellowCard                               | E256400-538837          |                        |             |
| Features                                    | High Heat Resistance    |                        |             |
|                                             | High Stiffness          |                        |             |
|                                             | Paintable               |                        |             |
| Uses                                        | Automotive Applications |                        |             |
|                                             | Housings                |                        |             |
| Forms                                       | Pellets                 |                        |             |
| Processing Method                           | Injection Molding       |                        |             |
| Physical                                    | Nominal Value           | Unit                   | Test Method |
| Density                                     | 1.05                    | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 8.00                    | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage                           | 0.40 to 0.70            | %                      | ISO 294-4   |
| Hardness                                    | Nominal Value           | Unit                   | Test Method |
| Ball Indentation Hardness                   | 115                     | MPa                    | ISO 2039-1  |
| Mechanical                                  | Nominal Value           | Unit                   | Test Method |
| Tensile Modulus                             | 2700                    | MPa                    | ISO 527-2   |
| Tensile Stress (Yield, 23°C)                | 51.0                    | MPa                    | ISO 527-2   |
| Tensile Strain                              |                         |                        | ISO 527-2   |
| Yield, 23°C                                 | 2.8                     | %                      |             |
| Break, 23°C                                 | > 15                    | %                      |             |
| Impact                                      | Nominal Value           | Unit                   | Test Method |
| Charpy Notched Impact Strength              |                         |                        | ISO 179     |
| -30°C                                       | 7.0                     | kJ/m <sup>2</sup>      |             |
| 23°C                                        | 15                      | kJ/m <sup>2</sup>      |             |
| Charpy Unnotched Impact Strength            |                         |                        | ISO 179     |
| -30°C                                       | 80                      | kJ/m <sup>2</sup>      |             |
| 23°C                                        | 100                     | kJ/m <sup>2</sup>      |             |
| Thermal                                     | Nominal Value           | Unit                   | Test Method |
| Heat Deflection Temperature                 |                         |                        |             |
| 0.45 MPa, Annealed                          | 107                     | °C                     | ISO 75-2/B  |

| 1.8 MPa, Annealed                        | 101           | °C       | ISO 75-2/A  |
|------------------------------------------|---------------|----------|-------------|
| Vicat Softening Temperature              | 109           | °C       | ISO 306/B50 |
| CLTE - Flow                              | 8.0E-5        | cm/cm/°C | ISO 11359-2 |
| Electrical                               | Nominal Value | Unit     | Test Method |
| Surface Resistivity                      | > 1.0E+15     | ohms     | IEC 60093   |
| Volume Resistivity                       | > 1.0E+15     | ohms·cm  | IEC 60093   |
| Electric Strength <sup>1</sup> (1.50 mm) | 34            | kV/mm    | IEC 60243-1 |
| Relative Permittivity                    |               |          | IEC 60250   |
| 100 Hz                                   | 3.10          |          |             |
| 1 MHz                                    | 3.00          |          |             |
| Dissipation Factor                       |               |          | IEC 60250   |
| 100 Hz                                   | 6.0E-3        |          |             |
| 1 MHz                                    | 0.010         |          |             |
| Comparative Tracking Index               | 600           | V        | IEC 60112   |
| Injection                                | Nominal Value | Unit     |             |
| Drying Temperature                       | 80.0          | °C       |             |
| Drying Time                              | 2.0 to 4.0    | hr       |             |
| Processing (Melt) Temp                   | 230 to 270    | °C       |             |
| Mold Temperature                         | 70.0          | °C       |             |
| Injection Velocity                       | 240           | mm/sec   |             |
| NOTE                                     |               |          |             |
| 1.                                       | Short Time    |          |             |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

