

# SLOVAMID® 6 HI HV TS

Polyamide 6

Plastcom

Message:

PA 6 is high viscosity, unreinforced, heat stabilised, impact modified for extrusion and blow moulding grade. Automotive applications as air ducts and fuel filter pipes, fuel and oil containers.

| General Information |                         |
|---------------------|-------------------------|
| Additive            | Heat Stabilizer         |
|                     | Impact Modifier         |
| Features            | Heat Stabilized         |
|                     | High Viscosity          |
|                     | Impact Modified         |
| Uses                | Automotive Applications |
|                     | Containers              |
| Appearance          | Colors Available        |
|                     | Natural Color           |
| Processing Method   | Blow Molding            |
|                     | Extrusion               |

| Physical                                 | Nominal Value | Unit              | Test Method |
|------------------------------------------|---------------|-------------------|-------------|
| Density                                  | 1.07          | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (275°C/5.0 kg) | 10            | g/10 min          | ISO 1133    |
| Water Content                            | 0.10          | %                 | ISO 960     |
| Mechanical                               | Nominal Value | Unit              | Test Method |
| Tensile Modulus                          | 1900          | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                   | 50.0          | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                   | 6.0           | %                 | ISO 527-2   |
| Flexural Modulus                         | 750           | MPa               | ISO 178     |
| Flexural Stress                          | 45.0          | MPa               | ISO 178     |
| Impact                                   | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength           |               |                   | ISO 179     |
| -20°C                                    | 25            | kJ/m <sup>2</sup> |             |
| 23°C                                     | 85            | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength         |               |                   | ISO 179     |
| -20°C                                    | No Break      |                   |             |

| 23°C                                               | No Break      |         |                |
|----------------------------------------------------|---------------|---------|----------------|
| Thermal                                            | Nominal Value | Unit    | Test Method    |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 44.0          | °C      | ISO 75-2/B     |
| Vicat Softening Temperature                        | 175           | °C      | ISO 306/B      |
| Melting Temperature (DSC)                          | 222           | °C      | ISO 3146       |
| Electrical                                         | Nominal Value | Unit    | Test Method    |
| Surface Resistivity                                | 1.0E+12       | ohms    | IEC 60093      |
| Volume Resistivity                                 | 1.0E+14       | ohms·cm | IEC 60093      |
| Comparative Tracking Index                         | 475           | V       | IEC 60112      |
| Flammability                                       | Nominal Value | Unit    | Test Method    |
| Flame Rating                                       | HB            |         | UL 94          |
| Glow Wire Ignition Temperature                     | 650           | °C      | IEC 60695-2-13 |
| Injection                                          | Nominal Value | Unit    |                |
| Drying Temperature                                 | 80.0          | °C      |                |
| Drying Time                                        | 4.0           | hr      |                |
| Processing (Melt) Temp                             | 250 to 270    | °C      |                |

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