

# Armlen® PP SM 20-1UP

Polypropylene  
Poly Plastic

Message:

Armlen® PP SM 20-1UP is a Polypropylene product filled with mineral. It is available in Europe.

| General Information                                |                 |                   |
|----------------------------------------------------|-----------------|-------------------|
| Filler / Reinforcement                             | Mineral         |                   |
| Features                                           | Shock Resistant |                   |
| Physical                                           | Nominal Value   | Unit              |
| Density                                            | 1.09            | g/cm <sup>3</sup> |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)          | 4.9             | g/10 min          |
| Molding Shrinkage                                  | 0.80 to 1.0     | %                 |
| Mechanical                                         | Nominal Value   | Unit              |
| Tensile Stress (Yield)                             | 24.0            | MPa               |
| Tensile Strain (Break)                             | 50              | %                 |
| Flexural Modulus (23°C)                            | 2100            | MPa               |
| Flexural Stress                                    | 28.0            | MPa               |
| Impact                                             | Nominal Value   | Unit              |
| Charpy Notched Impact Strength (20°C)              | 5.0             | kJ/m <sup>2</sup> |
| Charpy Unnotched Impact Strength                   |                 |                   |
| -40°C                                              | 18              | kJ/m <sup>2</sup> |
| 20°C                                               | 60              | kJ/m <sup>2</sup> |
| Thermal                                            | Nominal Value   | Unit              |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 108             | °C                |
| Melting Temperature                                | 160             | °C                |
| CLTE - Flow (-20 to 110°C)                         | 7.0E-6          | cm/cm/°C          |
| Electrical                                         | Nominal Value   | Unit              |
| Volume Resistivity <sup>1</sup>                    | 1.0E+15         | ohms · cm         |
| NOTE                                               |                 |                   |
| 1.                                                 | Dry             |                   |

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