

# DAUNYL 66 AV

Polyamide 66

Daunia Trading srl

Message:

DAUNYL 66 AV is a polyamide 66 for moulding cycles, and general purpose. It offers a good processability. It is available in natural and black versions.

| General Information               |            |                     |                   |                       |
|-----------------------------------|------------|---------------------|-------------------|-----------------------|
| Features                          |            | General Purpose     |                   |                       |
|                                   |            | Good Processability |                   |                       |
| Appearance                        |            | Black               |                   |                       |
|                                   |            | Natural Color       |                   |                       |
| Forms                             |            | Pellets             |                   |                       |
| Processing Method                 |            | Injection Molding   |                   |                       |
| Physical                          | Dry        | Conditioned         | Unit              | Test Method           |
| Specific Gravity                  | 1.14       | --                  | g/cm <sup>3</sup> | ASTM D792, ISO 1183   |
| Molding Shrinkage                 |            |                     |                   |                       |
| Flow                              | 1.2 to 1.6 | --                  | %                 | ASTM D955             |
| --                                | 1.2 to 1.6 | --                  | %                 | ISO 294-4             |
| Water Absorption (23°C, 24 hr)    | 1.0        | --                  | %                 | ASTM D570             |
| Hardness                          | Dry        | Conditioned         | Unit              | Test Method           |
| Rockwell Hardness (R-Scale)       | 100        | 85                  |                   | ASTM D785             |
| Mechanical                        | Dry        | Conditioned         | Unit              | Test Method           |
| Tensile Modulus                   | 3200       | 1400                | MPa               | ASTM D638, ISO 527-2  |
| Tensile Strength (Yield)          | 85.0       | 55.0                | MPa               | ASTM D638, ISO 527-2  |
| Tensile Elongation (Break)        | 40         | 200                 | %                 | ASTM D638, ISO 527-2  |
| Flexural Strength                 | 140        | 75.0                | MPa               | ASTM D790, ISO 178    |
| Impact                            | Dry        | Conditioned         | Unit              | Test Method           |
| Notched Izod Impact               | 45         | 200                 | J/m               | ASTM D256             |
| Thermal                           | Dry        | Conditioned         | Unit              | Test Method           |
| Deflection Temperature Under Load |            |                     |                   |                       |
| 0.45 MPa, Unannealed              | 220        | --                  | °C                | ASTM D648, ISO 75-2/B |
| 1.8 MPa, Unannealed               | 95.0       | --                  | °C                | ASTM D648, ISO 75-2/A |
| Vicat Softening Temperature       | 250        | --                  | °C                | ASTM D1525, ISO 306   |
| Melting Temperature               | 255        | --                  | °C                |                       |
| CLTE - Flow                       | 7.0E-5     | --                  | cm/cm/°C          | ASTM D696             |

| Electrical                 | Dry          | Conditioned | Unit    | Test Method            |
|----------------------------|--------------|-------------|---------|------------------------|
| Surface Resistivity        | 1.0E+13      | 1.0E+11     | ohms    | ASTM D257, IEC 60093   |
| Volume Resistivity         | 1.0E+15      | 1.0E+12     | ohms·cm | ASTM D257, IEC 60093   |
| Dielectric Strength        | 120          | 80          | kV/mm   | ASTM D149, IEC 60243-1 |
| Comparative Tracking Index | > 600        | --          | V       | DIN 53480              |
| Flammability               | Dry          | Conditioned | Unit    | Test Method            |
| Flame Rating (1.60 mm)     | V-2          | --          |         | UL 94                  |
| Injection                  | Dry          | Unit        |         |                        |
| Processing (Melt) Temp     | 240 to 270   |             | °C      |                        |
| Mold Temperature           | 20.0 to 80.0 |             | °C      |                        |

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