

# VITAMIDE® AR86BK6273

Polyamide 66

Jackdaw Polymers

Message:

VITAMIDE® AR86BK6273 is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It is available in Europe.

Characteristics include:

Flame Rated

Hydrolytically Stable

| General Information                           |                                  |                   |                        |
|-----------------------------------------------|----------------------------------|-------------------|------------------------|
| Filler / Reinforcement                        | Glass Fiber,30% Filler by Weight |                   |                        |
| Features                                      | Hydrolytically Stable            |                   |                        |
| Appearance                                    | Black                            |                   |                        |
| Forms                                         | Pellets                          |                   |                        |
| Physical                                      | Nominal Value                    | Unit              | Test Method            |
| Specific Gravity                              | 1.37                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183    |
| Water Absorption (23°C, 24 hr)                | 0.80                             | %                 | ASTM D570, ISO 62      |
| Mechanical                                    | Nominal Value                    | Unit              | Test Method            |
| Tensile Strength (Break)                      | 170                              | MPa               | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)                    | 3.5                              | %                 | ASTM D638, ISO 527-2   |
| Flexural Modulus                              | 8000                             | MPa               | ASTM D790, ISO 178     |
| Flexural Stress                               |                                  |                   |                        |
| --                                            | 240                              | MPa               | ISO 178                |
| Break                                         | 240                              | MPa               | ASTM D790              |
| Impact                                        | Nominal Value                    | Unit              | Test Method            |
| Charpy Unnotched Impact Strength <sup>1</sup> | 70.0                             | kJ/m <sup>2</sup> | ASTM D256              |
| Charpy Unnotched Impact Strength              | 70                               | kJ/m <sup>2</sup> | ISO 179                |
| Notched Izod Impact Strength                  | 11                               | kJ/m <sup>2</sup> | ISO 180/1A             |
| Thermal                                       | Nominal Value                    | Unit              | Test Method            |
| Deflection Temperature Under Load             |                                  |                   |                        |
| 0.45 MPa, Unannealed                          | 240                              | °C                | ASTM D648, ISO 75-2/B  |
| 1.8 MPa, Unannealed                           | 235                              | °C                | ASTM D648, ISO 75-2/A  |
| Melting Temperature                           | 260                              | °C                | ASTM D2117, ISO 1218   |
| CLTE - Flow                                   | 2.5E-5                           | cm/cm/°C          | ASTM D696              |
| Electrical                                    | Nominal Value                    | Unit              | Test Method            |
| Volume Resistivity                            | 1.0E+15                          | ohms · cm         | ASTM D257, IEC 60093   |
| Dielectric Strength                           | 24                               | kV/mm             | ASTM D149, IEC 60243-1 |
| Comparative Tracking Index                    |                                  |                   |                        |
| Solution A                                    | 450                              | V                 | IEC 60112              |
| -- <sup>2</sup>                               | 450                              | V                 | ASTM D3638             |
| Flammability                                  | Nominal Value                    | Unit              | Test Method            |

|              |            |                             |
|--------------|------------|-----------------------------|
| Flame Rating | HB         | UL 94                       |
| Oxygen Index | 23         | %<br>ASTM D2863, ISO 4589-2 |
| NOTE         |            |                             |
| 1.           | Method A   |                             |
| 2.           | Solution A |                             |

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