

# VITAMIDE® AR36BK9505

Polyamide 66  
Jackdaw Polymers

Message:

VITAMIDE® AR36BK9505 is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It is available in Europe. Primary characteristic: flame rated.

| General Information                         |                                  |                   |                        |
|---------------------------------------------|----------------------------------|-------------------|------------------------|
| Filler / Reinforcement                      | Glass Fiber,30% Filler by Weight |                   |                        |
| Appearance                                  | Black                            |                   |                        |
| 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)                    | 150                              | MPa               | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)                  | 3.0                              | %                 | ASTM D638, ISO 527-2   |
| Flexural Modulus                            | 7500                             | MPa               | ASTM D790, ISO 178     |
| Flexural Stress                             |                                  |                   |                        |
| --                                          | 200                              | MPa               | ISO 178                |
| Break                                       | 200                              | MPa               | ASTM D790              |
| Impact                                      | Nominal Value                    | Unit              | Test Method            |
| Charpy Notched Impact Strength              | 10                               | kJ/m <sup>2</sup> | ISO 179                |
| Charpy Unnotched Impact Strength            | 40                               | kJ/m <sup>2</sup> | ISO 179                |
| Notched Izod Impact Strength                | 7.0                              | kJ/m <sup>2</sup> | ISO 180                |
| 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  |
| Peak 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                         | 28                               | kV/mm             | ASTM D149, IEC 60243-1 |
| Comparative Tracking Index (Solution A)     | 600                              | V                 | IEC 60112              |
| Flammability                                | Nominal Value                    | Unit              | Test Method            |
| Flame Rating                                | HB                               |                   | UL 94                  |
| Glow Wire Ignition Temperature <sup>1</sup> | 650                              | °C                | IEC 60695-2-13         |
| Oxygen Index                                | 23                               | %                 | ASTM D2863, ISO 4589-2 |
| NOTE                                        |                                  |                   |                        |
| 1.                                          | 30 sec                           |                   |                        |

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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

