

VITAMIDE® AR34BK8516

Polyamide 66

Jackdaw Polymers

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Technical Data

Product Description

VITAMIDE® AR34BK8516 is a Polyamide 66 (Nylon 66) product filled with 20% glass fiber. It is available in Europe. Primary characteristic: flame rated.

General

| | |
|---------------------------|---|
| Material Status | • Commercial: Active |
| Literature ¹ | • Technical Datasheet (English) • Technical Datasheet (French) |
| Search for UL Yellow Card | • Jackdaw Polymers • VITAMIDE® |
| Availability | • Europe |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Appearance | • Black |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------------------------|-------------------------|------------------------|---------------------|
| Specific Gravity | | | |
| -- | 1.29 | 1.29 g/cm ³ | ASTM D792 |
| -- | 1.29 g/cm ³ | 1.29 g/cm ³ | ISO 1183 |
| Water Absorption (73°F (23°C), 24 hr) | 1.0 % | 1.0 % | ASTM D570 ISO 62 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------------------------|-------------------------|--------------------|------------------------|
| Tensile Strength (Break) | 20300 psi | 140 MPa | ASTM D638 ISO 527-2 |
| Tensile Elongation (Break) | 4.0 % | 4.0 % | ASTM D638 ISO 527-2 |
| Flexural Modulus | 928000 psi | 6400 MPa | ASTM D790 ISO 178 |
| Flexural Stress | | | |
| -- | 29700 psi | 205 MPa | ISO 178 |
| Break | 29700 psi | 205 MPa | ASTM D790 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------------------|---------------------------|-----------------------|-------------|
| Notched Izod Impact Strength | 3.3 ft·lb/in ² | 7.0 kJ/m ² | ISO 180 |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------------------|
| Deflection Temperature Under Load | | | |
| 66 psi (0.45 MPa), Unannealed | 491 °F | 255 °C | ASTM D648 ISO 75-2/B |
| 264 psi (1.8 MPa), Unannealed | 482 °F | 250 °C | ASTM D648 ISO 75-2/A |
| Peak Melting Temperature | 500 °F | 260 °C | ASTM D2117 ISO 1218 |
| CLTE - Flow | 1.7E-5 in/in/°F | 3.0E-5 cm/cm/°C | ASTM D696 |

| Electrical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|--------------------------|
| Volume Resistivity | 1.0E+15 ohms·cm | 1.0E+15 ohms·cm | ASTM D257 IEC 60093 |
| Dielectric Strength | 810 V/mil | 32 kV/mm | ASTM D149 IEC 60243-1 |
| Comparative Tracking Index (Solution A) | 450 V | 450 V | IEC 60112 |

| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------|-------------------------|--------------------|--------------------------|
| Flame Rating | HB | HB | UL 94 |
| Oxygen Index | 24 % | 24 % | ASTM D2863 ISO 4589-2 |



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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

Jackdaw Polymers

Lancashire, United Kingdom

Telephone: +44-1706-377115

Web: <http://www.jackdaw-france.com/>

Distributor

Please contact the supplier to find a distributor for VITAMIDE® AR34BK8516

