# Devlon®
## K100



## 100% pure virgin PEEK® material

**Devlon K100 is suitable for use in a wide range of sealing applications including valve seats, spring-energised lip seals, back up rings and chevron sets.**

### Application guidelines

Exceptional mechanical strength, chemical resistance and wear properties make Devlon K100 an ideal solution in harsh environments, allowing operation with minimal creep at elevated temperatures for components such as bearings, gears, wear strips and structural components.

Devlon K100 is inherently clean and non-toxic and complies with FDA regulations for food and it is physiologically harmless.

For more detailed information regarding chemical compatibility, it is recommended that the James Walker Chemical Compatibility Guide or our technical team is consulted, particularly for extremely aggressive media.

### Critical application grades

James Walker recognises that in critical and type approved applications not only is the material selection critical but the manufacturing process can also in luence product performance. In recognition of this James Walker has created a speci ication mechanism allowing total control and assurance of consistency.

Within the Devlon K family we can also offer:

Devlon K200 - Extruded

Devlon K300 - Injection moulded

Devlon K400 - Compression moulded

Devlon K500 - Spin moulded

**TYPICAL TEMPERATURE OPERATING RANGE:**

Max +260°C (+500°F)
Min -70°C (-94°F)

**STANDARD COLOUR**

Beige opaque

James Walker

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### Typical physical properties

| Property | Test Method | Units | Value |
|---|---|---|---|
| Tensile strength at yield 23°C | ASTM D638 | psi | 16000 |
| Tensile strength at break 23°C | ASTM D638 | psi | 16000 |
| Elongation at yield 23°C | ASTM D638 | % | 4.9 |
| Elongation at break | ASTM D638 | % | 40 |
| Hardness | ASTM D785 | Rockwell | 99 |
| Flexural modulus | ASTM D790 | psi | 600000 |
| Notched impact strength 23°C | ASTM D256 | Ft-lbs/in | 0.95 |
| Modulus of elasticity | ASTM D638 | psi | 650000 |
| Compressive strength | ASTM D695 | psi | 17500 |
| Compressive modulus | ASTM D695 | psi | 493000 |
| Melt point | - | °C | 334 |
| Heat distortion temperature (264 psi) | ASTM D648 | °C | 160 |
| Specific gravity | ASTM D792 | g/cm³ | 1.32 |
| Water absorption 24hrs | ASTM D570 | % | 0.02 |
| Water absorption saturation | ASTM DIN EN ISO 62 | % | 0.45 |

1. The test figures stated are typical values and their aim is to assist the specifier in material selection. They are not intended to represent exact specifications.

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To ensure you are working with the very latest product specifications, please consult the relevant section of the James Walker website: **www.jameswalker.biz**.



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