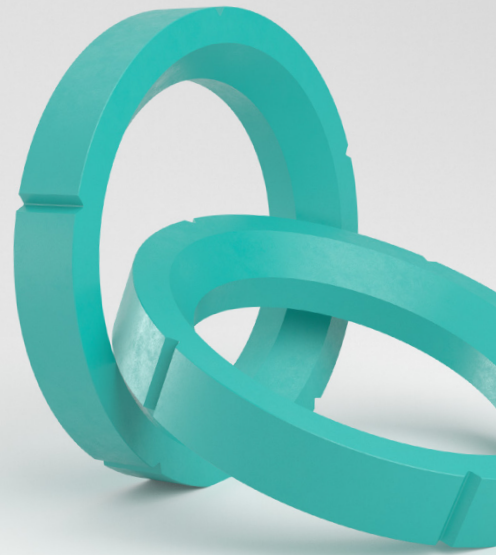


Devlon[®]

X100

Devlon[®] X100 is the next generation of materials for valve seats



Devlon[®] X100 has specifically been developed for use in the valve industry as a floating ball valve seat material.

Prime features

- Exceptional sliding, low friction properties
- Enhanced chemical resistance
- Superior dimensional stability
- Filled variants available on request

Application guidelines

To meet the increasing demands of the valve industry, Devlon X100 extends both the temperature and pressure range of traditional materials such as Nylon 6 and PTFE and improves moisture absorption resistance, with additional improvements in wear performance.

Devlon X100 also offers improved chemical resistance to aliphatic and aromatic hydrocarbons, H₂S and CO₂.

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



TEMPERATURE

Maximum Operating Temperature:

+176°C (+349°F)

Minimum Operating Temperature:

-50°C (-58°F)



COLOUR

Green

Devlon[®]

X100

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of materials for valve seats

Typical physical properties

Property	Test method	Units	Value
Modulus	ASTM D638	MPa	1500
Tensile stress at break	ASTM D638	MPa	60
Elongation at break	ASTM D638	%	> 200
Hardness	-	Shore D	74
Flexural modulus	ASTM D790	MPa	1900
Flexural stress	ASTM D790	MPa	70
Charpy impact	ISO 179	kJ/m ²	10
Compressive strength	ASTM D695	MPa	46
Compressive modulus	ASTM D695	MPa	1500
Heat distortion temp (1.8 MPa)	ASTM D648	°C	85
Melt point	ASTM D3418	°C	220
Density	ASTM D792	g/cm ³	1.24
Moisture absorption	ASTM D590	%	< 0.5

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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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