

UHP90 datasheet

Application:

UHP90 is a Ultra high molecular weight polyethylene (UHMWPE) for applications in (sea)water, lubricating and non-lubricating media. The material is especially very good in heavy duty scraper applications but is also suitable for low and high pressure applications. Attention should be paid to the maximum operating temperature of 80°C.

Qualifications:

Low friction, fair chemical resistance, very good wear resistance, very good extrusion resistance, good compressive strength, very good dry running capacity, very good abrasion resistance, suitable for hard and soft mating surfaces.

Typical properties

| Physical properties | Test method | unit | value |
|------------------------------|--------------------|--------------------|--------------|
| Colour | | White to off-white | |
| Specific gravity | ASTM D792 at 23°C | g/cm ³ | 0,93 |
| Hardness | ASTM D2240 at 23°C | shore D | 63 |
| Mechanical properties | Test method | unit | value |
| Tensile strength at break | ASTM D1708 | MPa | 42 |
| Elongation at break | ASTM D1708 | % | 350 |
| Thermal properties | Unit | min. | max. |
| Service temperature range | °C | -200 | +82 |

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|---|
| Maximum and minimum temperature can be adjusted conform application. For limitations for your special application, please contact AST |
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Availability: up to 2500 mm diameter

The above values are typical

The information in this datasheet is based on many years of experience in the application of UHP90 . However, unknown parameters and conditions may restrict general statements during usage. It is vital that users satisfy themselves as to the suitability of individual products through adequate testing. For this reason and due to the wide range of applications of our products, AST B.V. can accept no liability as to the suitability or correctness of our recommendations in individual cases. The application limits for pressure, temperature and velocity given in this datasheet are maximum values determined in the test laboratory. During practical applications it should be remembered that due to the interaction of the operating parameters, the maximum values must be set correspondingly lower. For exceptional operating conditions, please contact us.