

UHP90

MATERIAL	UHP90 is a Ultra high molecular weight polyethylene (UHMWPE).
DESCRIPTION	Suitable for hard and soft mating surfaces.
APPLICATION	This material is especially very good in heavy duty scraper applications but is also suitable for low and high pressure applications.
TEMPERATURE	The temperature range is -200 °C to 82 °C.

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE
Color			White to off-white
Specific Gravity	ASTMD792 at 23°C	g/cm3	0,93
Hardness	ASTMD2240 at 23 °C	Shore D	63
Tensile strength at break	ASTMD1708	Mpa	42
Elongation at break	ASTMD1708	%	350
Service temperature range		°C	-200/82

Maximum and minimum working temperature is depending on the specific application criteria.

	POOR	LOW	MEDIUM	FAIR	GOOD	VERY GOOD
Chemical resistance				X		
Wear resistance						X
Extrusion resistance						X
Abrasion resistance						X
Compressive strength					X	
Dry running properties						X
	HIGH	MEDIUM HIGH	MEDIUM	MEDIUM LOW	LOW	VERY LOW
friction					X	

The above values are typical

The information in this datasheet is based on many years of experience in the application of CHPU14. 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.

Advanced Sealing Technology

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