

Properties	Test Method	Unit	Value
hardness	DIN ISO 7619-1	Shore A	85 - 95 *
density	DIN EN ISO 1183-1	g/cm ³	1,25 *
tensile strength	DIN 53504	N/mm ²	≥ 45 *
elongation at break	DIN 53504	%	≥ 370 *
tear resistance	DIN ISO 34-1	N/mm	≥ 55 *
abrasion	DIN ISO 4649	mm ³	≤ 50 *

*Tested at room temperature and normal relative humidity.
DIN ... Deutsche Industrie Norm (engl. german industry standard)

Material characteristic

ELASTOPAL EM is a solid cast Polyurethane with excellent abrasion resistance and resilience.

Standard hardness is between 65 to 95 Shore A.

ELASTOPAL EM is not UV stable, which however does not affect the mechanical properties.

ELASTOPAL EM should not be used in direct contact with foodstuffs.

Please request a food quality for contact with foodstuffs.

The temperature application range of ELASTOPAL is between -20° and +80°C. Under this limit the material gets harder and brittle. Above the limit it gets softer and the strength value decline. Shortly and not too often recurrent exposures from -30° up to 120°C are possible. But they affect the lifetime of the claimed part. For such applications field trails are necessary to decide if the use of the material is still economical towards other materials.

Note to users

The stated values are typical test results and not limiting specification values. These data do not relieve users from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific application. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

The information given may be modified at any time without notice.

Stand: 01.10.2021