

SYNTHENE **POLYURETHANE** **ELASTOMERS**



**IMPACT
RESISTANT**



**TEAR
RESISTANT**

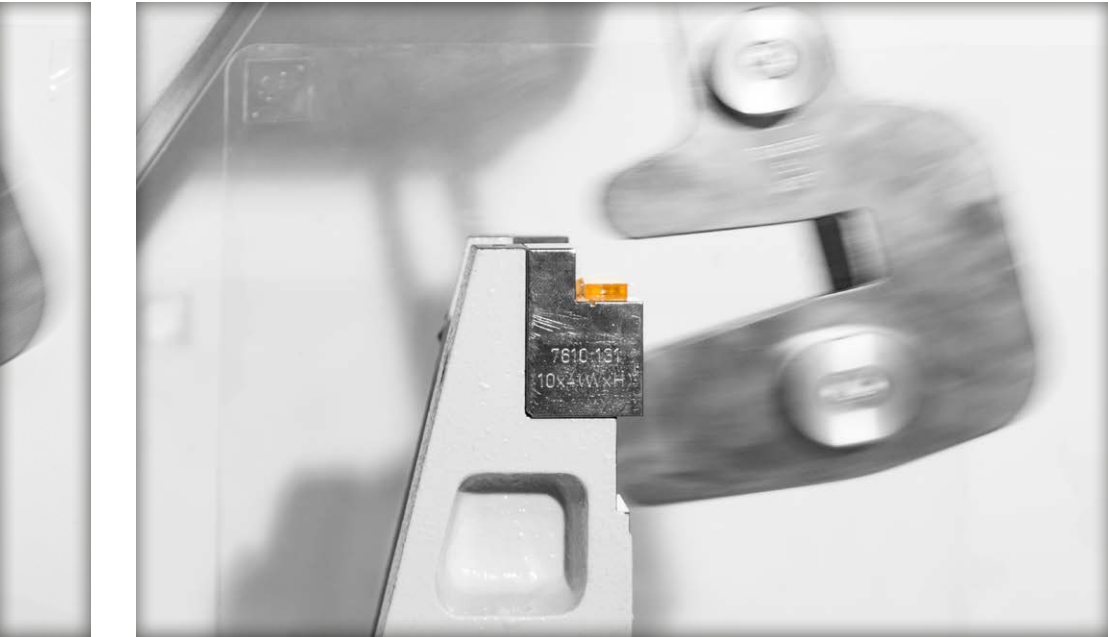


**ABRASION
RESISTANT**



**CHEMICAL
RESISTANT**

SYNTHENE POLYURETHANE ELASTOMERS

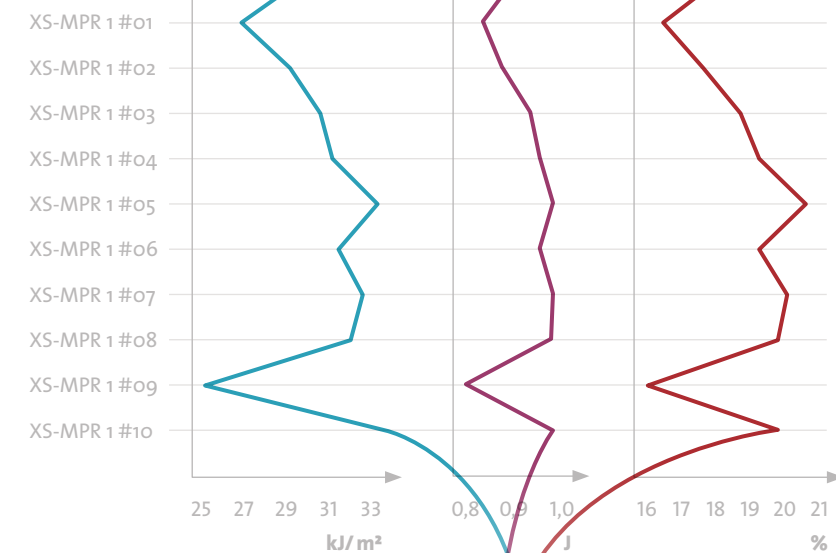


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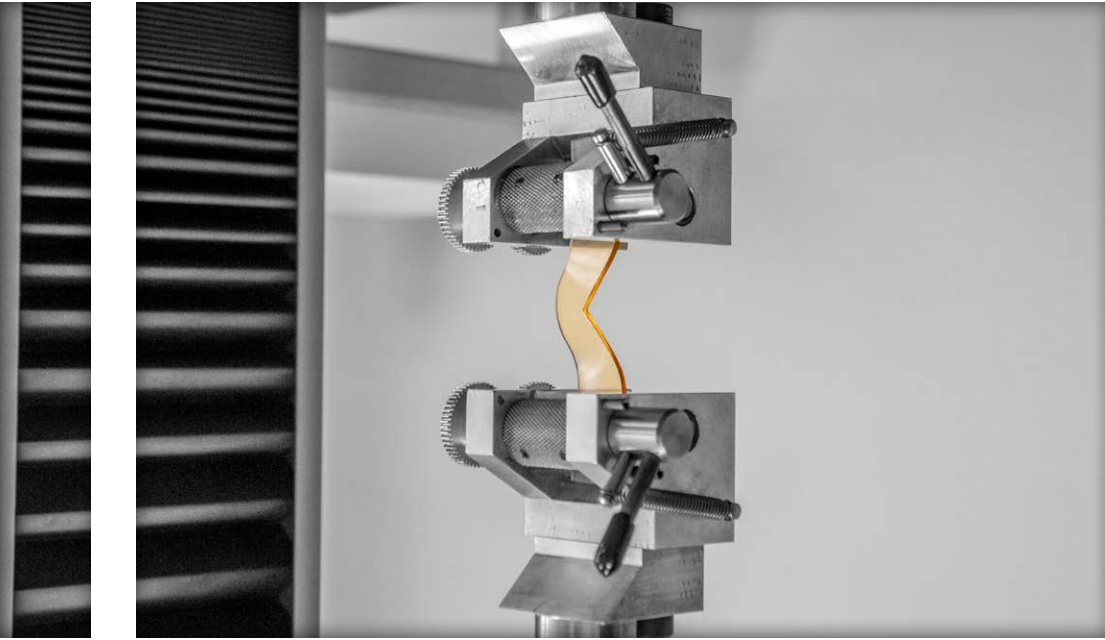


IMPACT RESISTANCE

- » For long lasting parts under heavy duty, **SYNTHENE** hot-cast PU offer **high impact resistance**
- » This impact resistance is measured thanks to the **Charpy impact test**
- » **Typical applications:** mining and mineral processing, conveyor chains, rigid shock absorbers etc.

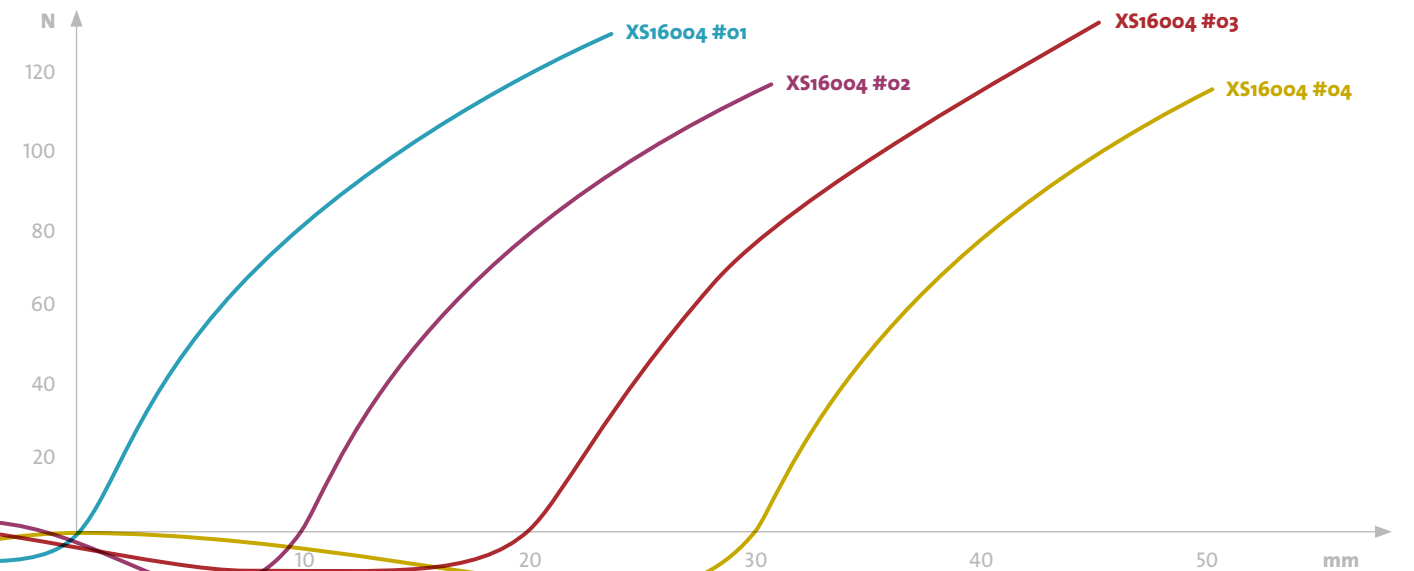


SYNTHENE POLYURETHANE ELASTOMERS



TEAR RESISTANCE

- » Even notched, **SYNTHENE** hot-cast PU still offer a **high tear resistance** to keep facing the targeted challenge
- » **Repeated tests** in various conditions ensure that the materials grant the required properties
- » **Typical applications:** bellows, skate-board wheels, shoe soles etc.



SYNTHENE POLYURETHANE ELASTOMERS



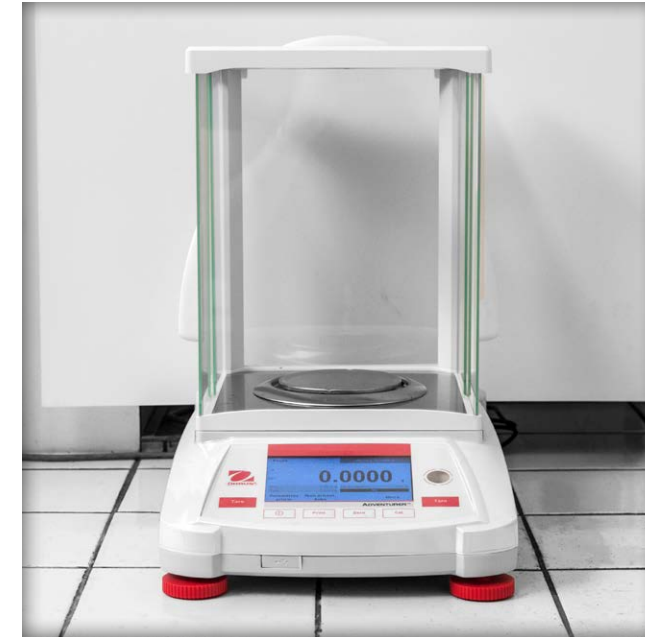
ABRASION RESISTANCE

- » Typically representative of the fatigue resistance, the abrasion data are the **key to successful projects**
- » The **Taber abrasion test** over 1000 revolutions or more **gives reliable information** on a material's wear resistance
- » **Typical applications:** sieve mesh for mining, pipeline rollers, snowplough blades etc.

ABRASION RESISTANCE TABER 1000 REV/H22 1 KG ISO 5470

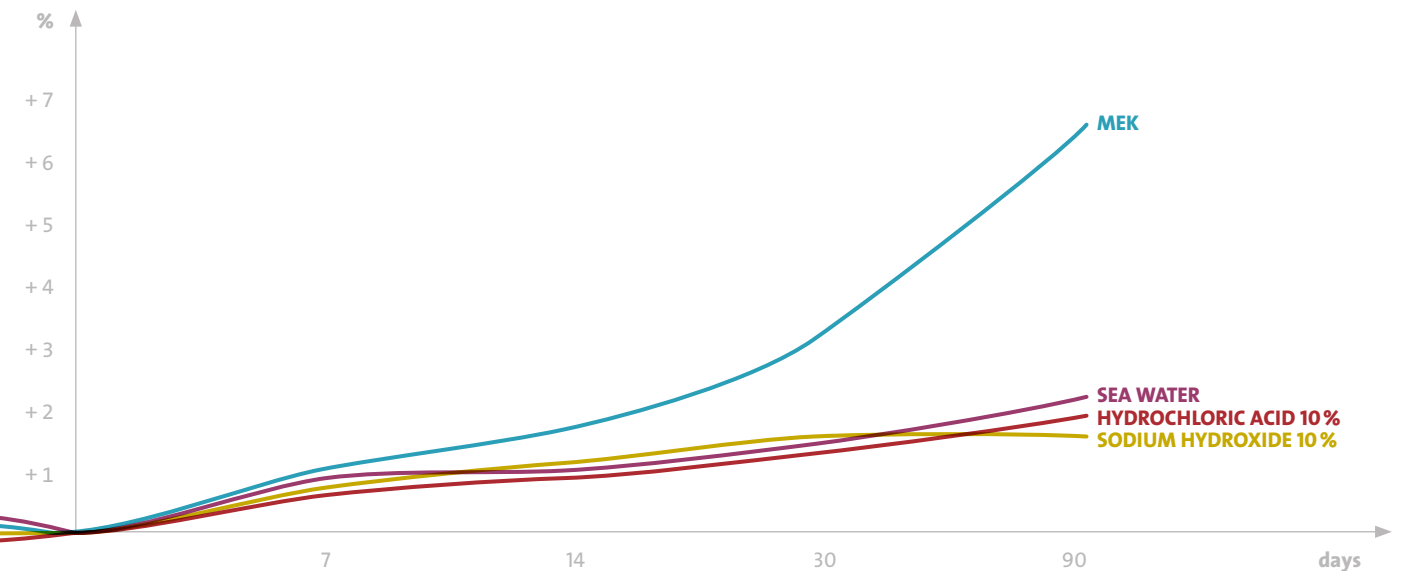
PRODUCT NAME	SHORE HARDNESS	mg/100 U	DENSITY
XS13017/2	93 A	2,00	1,1
XS13017/1	93 A	2,60	1,1
XS14025/1	77 D	10,00	1,1
XS15004/1	85 A	107,00	2,36
EHP 90 Shore A	90 A	38,00	1,05

SYNTHENE POLYURETHANE ELASTOMERS

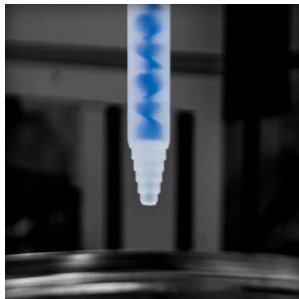


CHEMICAL RESISTANCE

- » **Polyurethane elastomers** are **versatile materials** that encounter **versatile environments**
- » Therefore a **good overall chemical resistance** is not to be neglected – **SYNTHENE** elastomers **are tested over months** in various solutions
- » **Typical applications:** oil & gas, water pipelines, heat exchangers, printing rolls etc.



ABOUT SYNTHENE



The innovative chemical company, located in France, was founded in 1958. SYNTHENE provides specific formulation and high quality industrial solutions. SYNTHENE places a particular emphasis on offering high-performance products, with cautiously selected raw materials from trustworthy manufacturers.

All SYNTHENE Prototyping resins meet the current requirements of REACH and SVHC.

SYNTHENE IS A
COMPANY CERTIFIED BY:



- 1958 Foundation of the company
- 1970 First production of PU
- 1982 Development of elastomers for offshore cables insulation
- 1991 Development of elastomers for manual casting
- 2000 High performance manual casting elastomers
- 2002 Development of elastomers for vacuum casting
- 2013 Creation of a range of hot-cast PU

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