

RIGID 60

RIGID POLYURETHANE

Rigid polyurethane system with excellent dimensional stability and good workability. Suitable as a soundproofing filler for engine compartments and for producing technical molded parts, even with minimal release agents.



Technical Information

- Rigid polyurethane system, suitable for complex geometries.
- Processable in heated metal molds with minimal release agents.
- Excellent dimensional stability (reduced shrinkage $\pm 0.1\%$).
- Excellent mechanical properties (tensile, flexural, compression).
- Thermal resistance up to 101 °C.
- Good impact resistance.
- Waste Classification: Special NON-HAZARDOUS.
- European Waste Code: 07.02.13



Processing Characteristics

- Product suitable for molding in aluminum heated to 60 °C.
- Mold residence time: 8 minutes (thickness 10 mm, density 600 kg/m³).
- Optional or minimal external release agent application.



Certified Company UNI EN ISO 9001:2023

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Fire Behavior

- Possibility to improve fire class with additives.
- Values must be verified through laboratory tests on representative samples.

Typical Physical-Mechanical Properties of the Molded Part

Property	Unit	Value	TEST
Density	Kg/m ³	630-635	DIN EN ISO 845
Tensile strength	N/mm ²	16-18	DIN EN ISO 527
Tensile elastic modulus	N/mm ²	650-660	DIN EN ISO 527
Elongation at break	%	7-8	DIN EN ISO 527
Flexural strength	N/mm ²	30-32	DIN 53423
Flexural elastic modulus	N/mm ²	740	DIN 53423
Compression strength	MPa	19	DIN 53421
Compressive elastic modulus	MPa	270	DIN 53421
Impact resistance (at 22 °C)	KJ/m ²	14-16	DIN EN ISO 179
Surface hardness	Shore D	68-69	DIN 53505
Heat deflection temperature (method B)	°C	97-101	DIN EN ISO 75-1

The indicated data are indicative and must be verified on finished parts produced under real operating conditions.



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