

RIGID 600

STRUCTURAL POLYURETHANE

Structural polyurethane system designed for molding high-density technical parts. Indicated for industrial applications where good mechanical properties and thermal stability are required. ODP = 0 (Ozone Depletion Potential).



Technical Information

- High-density polyurethane system: 500-700 g/l.
- Excellent mechanical strength.
- Good heat resistance.
- Processable with variable thicknesses (4-20 mm).
- Surface finish with post-molding painting.
- Suitable for complex shapes.
- Possibility of incorporating reinforcing or support inserts.
- Waste Classification: Special NON-HAZARDOUS.
- European Waste Code: 07.02.13



Typical Physical-Mechanical Properties of the Molded Part

Property	Unit	Value	TEST
Apparent density	g/l	600-650	
Flexural strength	MPa	34-37	DIN EN ISO 178
Flexural modulus of elasticity	MPa	700-750	DIN EN ISO 178
Charpy impact strength (room temperature)	KJ/m ²	17-19	DIN EN ISO 179
Hardness at 23 °C	Shore D	68-70	DIN 53505
Heat deflection temperature	°C	98-102	DIN EN ISO 75 (metodo B)

Tests were conducted on 4mm sheets. Values were measured at ambient temperature.



Certified Company UNI EN ISO 9001:2023

Technical data sheet revised on 27/05/2025

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Characteristics of In-Mold Surface Treatment

- Post-molding painting with a technical finish.
- Suitable for surface coloring and functional aesthetic treatments.
- Compatible with structural inserts.



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