

# INTEGRAL 30/45

### SEMI-RIGID POLYURETHANE

Integral skin semi-rigid polyurethane system, HCFC-free (ODP = 0), used for manufacturing indoor and outdoor furniture accessories, vehicle parts, and industrial machinery components.



#### **Technical Information**

- Excellent abrasion resistance.
- Surface hardness ranging from 30 to 45 Shore A.
- Excellent heat resistance.
- Moldable at variable thicknesses.
- Surface treatments:
  - » Excellent in-mold paintability;
  - » Custom colours available on request.
- Can incorporate inserts for fastening and/or reinforcement.
- At end of life, can be ground and reused for new articles.
- Waste classification: Special NON-HAZARDOUS.
- European Waste Code: 07.02.13



## Typical Physical-Mechanical Properties of Molded Part

Property	Unit	Core	Skin	Overall	Test Method
Density	Kg/m³	240	710	350	
Tensile strength	Kg/cm²	10	70		DIN 53504
Elongation at break	%	120	130		DIN 53504
Tear resistance	Kg/cm	2	13		DIN 53575
Hardness at 23 °C	Shore A			30-45	ASTM D 2240
C.L.D. (50%)	Kg/cm²			1.2	ASTM 2406/68

Tests carried out on 4 mm plates. Values measured at room temperature.



Certified Company UNI EN ISO 9001:2023

Technical data sheet revised on 23/05/2025



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#### Fire Behavior

» Complies with: CSE RF4-83 Class 3 IM – UNI 9175

Flame propagation and classification values are indicative only and do not constitute product specifications.

Final certification must be issued by authorized laboratories at the customer's expense.

### Surface Treatment Characteristics (In-Mold)

- In-mold treatment with water-based polyurethane paint.
- Paint characteristics:
  - » Good abrasion resistance;
  - » Good UV resistance (UNI ISO 4892-4582).

Scale Type	Sample	International Standards	
BLUE Scale	5/6 for both colors	1 to 8	
GREY Scale	5 for Black color 4/5 for Light Grey	1 to 5	

BLUE scale: 1 = poor resistance, 8 = excellent resistance.

GREY scale: 1 = poor resistance, 5 = excellent resistance.



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