

ELASTOSIL M 4511

Room Temperature Curing Silicone Rubber (RTV-2) — Pourable, condensation-curing

Product Information

Product Name	ELASTOSIL M 4511
Brand	Wacker Chemie AG
Type	RTV-2 condensation-curing silicone rubber
Color	White
Main Application	Making cost effective molds, specially suited for casting PE and PU resins

Key Properties

Property	Description
Flowability	Very good flowability and self-deaeration
Hardness	Very low Shore A hardness (approx. 12)
Tear Strength	High tear strength (> 18 N/mm)
Elongation	Extremely high elongation and flexibility (600%)
Chemical Resistance	Outstanding resistance to polyester and PU resins — extended mold life
Cure System	Condensation-curing (RTV-2)

Technical Data — Uncured

Property	Condition	Value	Method
Density	23°C	1.22 g/cm³	—
Viscosity, dynamic (after stirring)	23°C	25,000 mPa·s	DIN EN ISO 3219

Technical Data — Catalyzed (5% Catalyst T 51)

Property	Condition	Value	Method
Viscosity, dynamic	23°C	20,000 mPa·s	ISO 3219

Technical Data — Cured (5% Catalyst T 51, 4 days @ 23°C / 50% RH)

Property	Condition	Value	Method
Density in water	23°C	1.22 g/cm³	ISO 2781
Tear Strength	—	> 18 N/mm	ASTM D 624 B
Hardness Shore A	—	12	ISO 868
Tensile Strength	—	3.5 N/mm²	ISO 37
Elongation at Break	—	600%	ISO 37
Linear Shrinkage	—	< 0.4%	—

Processing & Application

Catalyst Selection	For epoxy/PU resin molds: 5 wt% Catalyst T 21. For polyester, plaster, concrete, wax: 5 wt% Catalyst T 51.
	Blend with Catalyst T 47 (e.g. 95:5 T51:T47) reduces pot life to ~30 min, cure to ~4 h.
Applications	Reproduction molding, fine/fragile models with undercuts, printing pads (excellent ink transfer).
	'Best use before end' date on label. Storage beyond date possible — verify properties before use.