

TECHNICAL PROPERTIES

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Revision: 2

R10x9

R10x9 is a pure orthophthalic unsaturated polyester resin of medium reactivity and medium viscosity dissolved in styrene.

R10x9 is mostly used in general purpose applications.

Liquid resin properties 23 °C

	Unit	Value	Method
Monomer		Styrene	---
Styrene content	% w/w	36,0 ÷ 38,0	V5 - 2010 (rif. UNI 9560)
Viscosity Brookfield	mPa*s	450 ÷ 600	V2 - 2010 (rif. UNI 8701/3)
Acid value	mgKOH/g	26 max	UNI EN ISO 2114
Stability (in the dark)		6 months	---

Cured resin properties 23 °C

	Unit	Value	Method
Gel time ^{a)}	Min.	4'30" ÷ 6'30"	V1.1 - 2010 (rif. DIN 16945)
Gel time to peak exotherm ^{a)}	Min.	5'30" ÷ 7'00"	V1.1 - 2010 (rif. DIN 16945)
Peak exotherm ^{a)}	°C	180 ÷ 195	V1.1 - 2010 (rif. DIN 16945)

^{a)} Catalyst system: 2.0 g peroxide BUTANOX M50[®] (AKZO)
100 g resin

Typical mechanical properties

	Unit	Value	Method
Barcol hardness		45	ASTM 2583
Tensile strength at break	MPa	64	ASTM D638
Tensile modulus	MPa	3800	
Elongation at break	%	2.6	
Heat deflection temperature (HDT)			ASTM D648
Stresses of 1820 kPa	°C	65	
Stresses of 455 kPa	°C	77	

The information contained in this brochure is correct and accurate and is based on our technical and scientific knowledge at the date of going to press