



ISTANBUL UNIVERSITY
Engineering Faculty
Chemical Engineering Department



Sayı: B.30.2.İST.0.17.81.00/693 / 2056

29.10.2014

TARDIGRADE ERAP 950
Solvent Free, Two Component Epoxy Resin Adhesive

Product Information:

Appearance / Color

Resin – part A : gray, paste
Hardener – part B : cream, paste

Technical Information

Chemical Structure : Epoxy

Density (ASTM D792 / ISO 1183 / DIN 53479)

Resin – part A : 1.560 kg/l
Hardener – part B : 1.540 kg/l
Mixed resin A + B : 1.550 kg/l

Viscosity (ASTM D2555 / ISO 2555 / DIN EN ISO 2555)

Resin – part A : 21000 mPa·s
Hardener – part B : 11000 mPa·s
Mixed resin A + B : 10000 mPa·s

Water Absorption (ASTM D570-98 / ISO 62 / DIN 53495)

-(0.002%).

Pot Life

60 minutes (23 °C).



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Mechanical / Physical Properties

TEST	METHOD			VALUE		
				Average	Maximum	Minimum
Compressive strength	ASTM D695	ISO 604	DIN 53454	74 MPa	78 MPa	71 MPa
Flexural strength	ASTM D790	ISO 178	DIN 53452	26.96 MPa	28.31 MPa	22.39 MPa
Maximum force	ASTM D638	ISO 527	DIN 53457	211 N	220 N	206 N
% elongation at break	ASTM D638	ISO 527	DIN 53457	4.21%	4.89%	4.06%
Bond strength	ASTM D4541	ISO 4624	DIN 4624	14.10 MPa	15.98 MPa	13.67 MPa
Shore D hardness	ASTM D2240	ISO 868	DIN 53505	70	75	67

Test results for Tardigrade ERAP 950 Solvent Free, Two Component Epoxy Resin Adhesive.





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Chemical Resistance

Chemicals	Values
HYDRCHLORIC ACID 25%	2
HYDRCHLORIC ACID 10%	3
NITRIC ACID 25%	2
NITRIC ACID 10%	3
FORMIC ACID 25%	2
FORMIC ACID 10%	3
ASETIC ACID 25%	3
ASETIC ACID 10%	3
SULFURIC ACID 25%	3
SULFURIC ACID 10%	3
LACTIC ACID 25%	3
LACTIC ACID 10%	3
ETHYL ALCOHOL	3
AMMONIA	3
PERCHLOROETHYLENE	3
DIESEL FUEL	3
ACETONE	3
FUEL THINNER	3
HYDRAULIC OIL	3
THINNER	3

Excellent 3 Good 2
Low 1 Not resistant 0

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