

# TYPICAL PHYSICAL PROPERTIES OF WEST SYSTEM EPOXY



## TYPICAL PROPERTIES

### WEST SYSTEM Epoxy

Resin/Hardener	105/205 Standard	105/206 Slow	105/207 Special Coating	105/209 Extra Slow	Six10	G/flex
Mix Ratio, Resin:Hardener By Weight	5:1	5:1	3.5:1	3.5:1	n/a	1.2:1
Mixed Viscosity @ 25°C [Brookfield] mPas	975	725	775	725	n/a	15000
Density @ 25°C [BS EN ISO 5350-Part B1] gcm <sup>-3</sup>	1.16/1.05	1.16/1.01	1.16/1.01	1.16/0.98	n/a	n/a
Mixed Density @ 25°C [BS EN ISO 5350-Part B1] gcm <sup>-3</sup>	1.11	1.11	1.10	1.09	n/a	n/a
Pot Life 100g mix @ 25°C Minutes	10-15	20-30	20-30	50-70	42	45
Min Working Temp °C	5	16	16	18	10	5
Cure To Solid State Hours	5-7	9-12	9-12	20-24	5-6	3-4
Cure To Max Strength Days	5-7	5-7	5-7	5-9	n/a	n/a
Shore D 1 day [BS EN ISO 868]	80	80	78	70	72	70
Shore D 14 days [BS EN ISO 868]	83	83	82	82	80.60	75
Tensile Strength [BS EN ISO 527-2] MPa	54.09	50.46	51.77	50.59	44.40	23.72
Elongation [BS EN ISO 527-2] %	3.40	4.50	3.40	3.50	7.90	32.70
Tensile Modulus [BS EN ISO 527-2] GPa	2.81	3.17	2.82	2.96	2.60	0.99
Flexural Strength [BS EN ISO 178] MPa	97.29	81.42	89.73	86.86	78.10	35.80
Flexural Modulus [BS EN ISO 178] GPa	3.18	3.10	3.54	2.95	2.40	1.08
Compressive Yield [BS EN ISO 604]						
1 Day MPa	69.77	55.08	41.46	8.45	27.70	n/a
14 days MPa	78.72	79.28	74.72	69.17	66.80	36.32
HDT [ASTM D-648]°C	48	51	48	47	52.80	53
Tg by DSC °C	54	52	51	50	n/a	59
Ultimate Tg by DSC °C	61	59	58	57	n/a	68
Izod Impact [ASTM D-256]J/m	49.66	28.84	67.82	58.74	n/a	68.34

These are typical properties and cannot be construed as a specification. The end users should test the products to ensure the products are suitable for the intended application. Any information, data, advice or recommendation published by Wessex Resins by other means and whether relating to Wessex Resins' materials or other materials, is given in good faith and believed to be reliable.

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