



VIAPAL UP 355

E/66

UP-resin

**based on orthophthalic acid
medium viscosity
high reactivity
non-accelerated**

for universal application

VIAPAL UP 355 E/66 is a medium viscous, unsaturated polyester resin of high reactivity dissolved in styrene.

VIAPAL UP 355 E/66 is a universal type specially for

hand lay-up
spray moulding
vacuum process
hot press moulding
cold press moulding
centrifugal moulding
filament winding

VIAPAL UP 355 E/66 can be thinned with styrene in any ratio, however, additions of more than 10% are not recommended since the mechanical properties will be adversely influenced.

Specification of VIAPAL UP 355 E/66 – as supplied

Properties		Unit	Test Method
Viscosity at 200C	210 - 270	s	DIN 53211
Non-volatile matter (NVC)	66 ± 2	% b.w.	DIN 53216
Styrene compatibility	unlimited	--	DIN 55955-B
Colour index	max. 2	JFZ	DIN 6162
Density at 200C	1.13	g/cm ³	DIN 53217/2
Shrinkage on curing	7.0	% b.v.	DIN 16945/6.5
Flash point	about 35	°C	DIN 53213
Storage stability at max. 250C in darkness	6	months	--
Geltime at 200C with 2.0% MEKP 1.0% co 1	8 ± 4	minutes	DIN 16945/6.3.1.2



Data of cured VIAPAL UP 355 E/66

Properties		Unit	Test Method
Barcol hardness (935)	84	--	--
Density at 20°C	1.21	g/cm ³	DIN 53479
Refractive index n ²⁰ _D	1.557	--	DIN 53491
Tensile strength	55	N/mm ²	DIN 53455
Elongation	2.0	%	DIN 53455
Flexural strength	110	N/mm ²	DINS3452
Modulus of elasticity	3200	N/mm ²	DIN 53457
Impact strength	7	kJ/m ²	DIN 53453
Impact strength with notch	1.0	kJ/m ²	DIN 53453
Compressive strength	160	N/mm ²	DIN 53454
Hardness after 10 sec	175	N/mm ²	VDE 0302
Water absorption	0.3	%	DIN 53495

Mechanical properties of glass fiber reinforced VIAPAL UP 355 E/66

Properties	Laminate with 30% glassfibre chopped strand mat		
		Unit	Test Method
Tensile strength at break	100	N/mm ²	DIN 53455
Elongation	1.9	%	DIN 53455
Flexural strength	180	N/mm ²	DIN 53452
Modulus of elasticity	7000	N/mm ²	DIN 53457
Impact strength	65	kJ/m ²	DIN 53453
Impact strength with notch	51	kJ/m ²	DIN 53453
Compressive strength	225	N/mm ²	DIN 53454
Martens temperature	95	C°	DIN 53458