# **Product Data Sheet**



# **POLYPARK 3.41**

### Description

POLYPARK 3.41 is an isophthalic based low viscosity and high reactivity unsaturated polyester resin, non accelerated

### **Applications**

POLYPARK 3.41 contains no filler and it is ideal for areas where strength and transparency are necessary:

- FRP-GRP
- Laminating
- Casting
- Solid Surface
- Gelcoat

### **Principal properties**

- Very good heat resistance and chemical resistance
- Excellent water resistance
- High surface quality (modification is necessary)
- · Excellent adhesion to glass fiber

#### Product specifications upon delivery

Property	Value	Unit	TM
Viscosity <sup>(1)</sup>	400±50	mPa.s	ASTM D2196
Acid value	<20	mgKOH/g	ASTM D1639
Appearance	~Clear	-	-
Color	Max 3	Gardner	ASTM D1544
Solid content	62±2	%	ASDM D1259
Gel time <sup>(2)</sup>	15±5	min	ASTM D2471
Cure time <sup>(2)</sup>	18±8	min	
Peak temperature <sup>(2)</sup>	185±15	°C	
Density	1.15±0.05	g/cm3	ASTM D1298
Flash point	35	°C	ASTM D1310

#### Remarks

- (1) Viscosity: @ 25°C Briikfield, RPM 40 SPDL 2
- (2) Reactivity determined @  $25^{\circ}$ C with 1g CO 1% and 1,5g MEKP M50 added to 100g resin.

#### Properties of cast unfilled resin (typical values)

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Property	Value	Unit	TM
Tensile strength <sup>(1)</sup>	Min. 75	MPa	ASTM D638
Tensile modulus	2.5±0.5	GPa	ASTM D638
Elongation at break	3,3±0.7	%	ASTM D638
Flexural strength <sup>(1)</sup>	Min. 120	MPa	ASTM D790
Flexural modulus	3,5±0.5	GPa	ASTM D790
Molding shrinkage	Max.4	%	ASTM D2566
Hardness <sup>(1)</sup>	Min. 40	Barcol	ASTM D2583
HDT <sup>(1)</sup>	Min. 80	°C	ASTM D648
Water abs.(1)(2)	Max. 0.13	%	ASTM D570

#### Remarks

- (1) Sampling: 24hr @ ambient temperature and 2hr at 130°C
- (2) Determined after 24hr immersion in water at ambient temperature

# **Packaging**

Steel drum of 220 kg net

## Safety precautions

- · Avoid direct contact with skin and eyes.
- Necessary eye and body protection should be used.
- Keep container sealed to prevent moisture pick up and monomer loss.
- This product is flammable.

### Storage

The resin should be stored indoors in the original, unopened and undamaged containers in a dry place. Storage temperature should be between 5°C and 25°C. Shelf life will reduce at higher temperatures. Exposure to direct sunlight should be avoided.

### Shelf life

Under the stipulated storage conditions, shelf-life is 6 months from last quality control date.