

## DYNACOLL® Terra EP 413.01

### preliminary

06.21

#### General discription

Solid, amorphous and saturated polyester polyol made of min. 30 % b.w. renewable materials.

#### Application

Manufacturing of bio-based reactive hot melt adhesives with fast setting behaviour.

#### Specification

Property	Value	Unit	Test method
Hydroxyl number	27 – 34	mg KOH/g	DIN EN ISO 4629-2
Acid number	max. 2	mg KOH/g	DIN EN ISO 2114

#### Typical data

Molecular weight	3500	-	calculated from Hydroxyl number
Glass transition temperature	30	°C	DSC
Softening point (R + B)	85	°C	DIN ISO 4625
Viscosity at 130 °C	35	Pa s	DIN EN ISO 3219

#### Compatibility with other DYNACOLL copolyesters (1:1 blends)

Transparent:	7130, 7131, 7140, 7150, 7231, 7320, 7340, Terra 7540, EP 413.04
Cloudy:	
Opaque:	7210, 7230, 7361, 7381, 7390, Terra EP 413.02
Phase Separation:	7110, 7111, 7250, 7255, 7330, 7360, 7363, 7365, 7380 Terra 7640, EP 424.02, 7750

**Form supplied**

200 kg drums.

**Storage Stability**

When stored below 30 °C in closed containers the product remains stable for at least one year from delivery. In case of open or improperly closed containers, there is a possibility of increased moisture from the atmosphere.

**Safety and Handling**

Please refer to our Material Safety Data Sheet.

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**Reactive Hot Melt  
Typical data**

Reaction product from DYNACOLL *Terra* EP 413.01 with 4,4-MDI (Diphenylmethane-4,4'-diisocyanate) in a ratio OH/NCO = 1/2.2

Property	Value	Unit	Test method
Softening point (R + B)	100	°C	DIN ISO 4625
Open time	1	s	Evonik internal method
Setting time	1	s	Evonik internal method
Viscosity at 130 °C	200	Pa s	Parallel plate
Tensile strength	-	N/mm <sup>2</sup>	DIN 53 504
Elongation at break	brittle	%	DIN 53 504

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