

DYNACOLL® Terra 7640

preliminary

01.21

General discription

Liquid, saturated copolyester based on min. 75 % b.w. renewable materials.

Application

Manufacturing of bio-based reactive hot melt adhesives.

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	-40	°C	DSC
Viscosity at 80 °C	4	Pa s	DIN EN ISO 3219

Compatibility with other DYNACOLL copolyesters (1:1 blends)

Transparent:	7110, 7111, 7131, 7210, 7230, 7231, 7250, 7255, 7360, 7361, 7363, 7390 Terra EP 413.04, EP 424.02, EP 481.01
Cloudy:	7365
Opaque:	7320, 7381 Terra EP 413.02
Phase Separation:	7130, 7140, 7150, 7330, 7340, 7380 Terra 7530, 7540

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.

**Reactive Hot Melt
Typical data**

Reaction product from DYNACOLL *Terra* 7640 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)	-	°C	DIN ISO 4625
Open time	several hours	s	Evonik internal method
Setting time	several hours	s	Evonik internal method
Viscosity at 130 °C	4	Pa s	Parallel plate
Tensile strength	10	N/mm ²	DIN 53 504
Elongation at break	1300	%	DIN 53 504

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