

DYNACOLL® 7140

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Chemical composition

Solid, saturated, amorphous copolyester.

Application

Manufacturing of reactive hot melt adhesives with fast setting properties.

Specification

Property	Value	Unit	Test method
Hydroxyl number	18 – 24	mg KOH/g	DIN EN ISO 4629-2
Acid number	max. 2	mg KOH/g	DIN EN ISO 2114

Typical data

Molecular weight	5500	-	from Hydroxyl number
Softening point (R + B)	87	°C	DIN ISO 4625
Glass transition temperature	30	°C	DSC
Open time	5	s	Evonik internal method
Viscosity at 130 °C	50	Pa s	Parallel plate

Compatibility with other DYNACOLL copolyesters (1:1 blends)

Transparent:	7130, 7131, 7150, 7230, 7231, 7320, 7321, 7331, 7340, 7360
Cloudy:	-
Opaque:	7390
Phase separation:	7110, 7111, 7210, 7250, 7255, 7330, 7361, 7365, 7380, 7381

Form supplied

200 kg drums.

Storage Stability

When stored below 30 °C in closed containers the product remains stable for at least one year. In case of open or improperly closed containers, there is 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 7140 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)	102	°C	DIN ISO 4625
Open time	1	s	Evonik internal method
Setting time	<1	s	Evonik internal method
Viscosity at 130 °C	700	Pa s	Parallel plate
Tensile strength	-	N/mm ²	DIN 53 504
Elongation at break	brittle	%	DIN 53 504

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