

DYNACOLL® 7381

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Chemical composition

Solid, highly crystalline, saturated copolyester.

Application

Manufacturing of reactive hot melt adhesives with very fast setting properties.

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	-	from Hydroxyl number
Softening point (R + B)	73	°C	DIN ISO 4625
Melting point	65	°C	DSC
Open time	18	s	Evonik method
Viscosity at 80 °C	2	Pa s	Parallel plate

Compatibility with other DYNACOLL copolyesters (1:1 blends)

Transparent:	7255, 7321, 7330, 7331, 7340, 7360, 7361, 7362, 7363, 7365, 7380
Cloudy:	-
Opaque:	-
Phase separation:	7110, 7111, 7130, 7131, 7140, 7150, 7210, 7230, 7231, 7250, 7320, 7390

Form supplied

190 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 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 7381 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)	67	°C	DIN ISO 4625
Open time	35	s	Evonik method
Setting time	3	s	Evonik method
Viscosity at 130 °C	5	Pa s	Parallel plate
Tensile strength	20	N/mm ²	DIN 53 504
Elongation at break	80	%	DIN 53 504

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