

## DYNACOLL® 7231

43.13.644e / 03.17

### Chemical composition

Liquid, saturated copolyester.

### Application

Manufacturing of reactive hot melt adhesives with low melt viscosity and high flexibility.

### 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)	-	°C	DIN ISO 4625
Glass transition temperature	-30	°C	DSC
Open time	-	s	Evonik internal method
Viscosity at 80 °C	8	Pa s	Parallel plate

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

Transparent: 7110, 7111, 7130, 7131, 7140, 7150, 7210, 7230, 7250, 7255, 7320, 7321, 7331, 7340, 7360, 7361, 7365, 7390

Cloudy: -

Opaque: -

Phase separation: 7330, 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 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 7231 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	8	Pa s	Parallel plate
Tensile strength	15	N/mm <sup>2</sup>	DIN 53 504
Elongation at break	900	%	DIN 53 504

**Evonik Operations GmbH**  
Paul-Baumann-Str. 1  
45764 Marl  
Germany  
PHONE +49 2365 49-02  
FAX +49 2365 49-5030

**Evonik Corporation**  
Resource Efficiency  
299 Jefferson Road  
Parsippany, NJ 07054-0677, USA  
PHONE +1 973 929-8000  
FAX +1 973 929-8460

**Evonik Specialty Chemicals  
(Shanghai) Co., Ltd.**  
55, Chundong Road  
Xinzhuang Industry Park  
Shanghai, 201108, PR China  
PHONE +86 21 6119-1028  
FAX +86 21 6119-1254

Email [adhesives@evonik.com](mailto:adhesives@evonik.com)  
[www.evonik.com/adhesives-sealants](http://www.evonik.com/adhesives-sealants)  
[www.evonik.com/designed-polymers](http://www.evonik.com/designed-polymers)

Replaces leaflet 43.13.644e / 09.06 and all former issues  
Marl, March 24, 2017

DYNACOLL® is a registered trademark of Evonik Industries AG or one of its subsidiaries

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.