

## Dow BETAMATE™ 7205 Polyurethane Prepolymer

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS

### Material Notes:

BETAMATE™ 7205 is a one component moisture curing polyurethane seam sealant with permanent elasticity and good adhesion to different substrates. It is an excellent seam sealer for body repair. It also shows excellent sealer combining medium strength bonding and sealing properties in a wet one-step operation. It can be abraded and is over-paintable with most of the paint systems. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-BETAMATE-7205-Polyurethane-Prepolymer.php](http://www.lookpolymers.com/polymer_Dow-BETAMATE-7205-Polyurethane-Prepolymer.php)

Physical Properties	Metric	English	Comments
Density	1.15 - 1.25 g/cc	0.0415 - 0.0452 lb/in <sup>3</sup>	
Viscosity	<= 260000 cP	<= 260000 cP	(Haake RU 20, 115 OSC, PK 2-1, 0; D=1s<sup>-1</sup>)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	DIN 53 505
Tensile Strength, Ultimate	2.30 - 2.90 MPa	334 - 421 psi	DIN 54 504
Elongation at Break	450 %	450 %	DIN 54 504
Adhesive Bond Strength	1.50 - 2.10 MPa	218 - 305 psi	Lap Shear Strength (bond thickness: 2mm); EN 1465
Tear Strength	7.00 - 9.00 kN/m	39.9 - 51.4 pli	ASTM D624 Form B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	80.0 °C	176 °F	continuous (Cured condition)
	120 °C	248 °F	short term (Cured condition)
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	continuous (Cured condition)
Shrinkage	5.0 - 6.0 %	5.0 - 6.0 %	DIN 52 451

Processing Properties	Metric	English	Comments
Cure Time	1440 min	24.0 hour	50% RH
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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