Baytec® OCS 080D

Polyurethane (Polyester, MDI)

Covestro - PUR

Message:

Baytec OCS 080D is a two-component polyurethane/-urea system that yields an optically clear solid elastomer. The isocyanate component A is an aliphatic isocyanate-terminated (rMDI) polyester prepolymer, and the polyol component is a proprietary polyester formulation. The Baytec OCS 080D system can be used to produce highly transparent, optical/ballistic-grade parts for applications ranging from ophthalmic lenses to bulletproof enclosures. As with any product, the Baytec OCS 080D system must be tested (including field testing, etc) in advance by the user to determine suitability for a given application.

General Information				
Forms	Liquid			
Physical	Nominal Value	Unit	Test Method	
Density	1.11	g/cm³	ASTM D1505	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	81		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	59.5	MPa	ASTM D638	
Flexural Modulus	1720	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact	70	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (0	.45			
MPa, Unannealed)	68.1	°C	ASTM D648	
Optical	Nominal Value	Unit	Test Method	
Refractive Index	1.530		ASTM D542	
Transmittance	92.0	%	ASTM D1003	
Haze	< 0.50	%	ASTM D1003	
Abbe Number	43.0			
Thermoset	Nominal Value			
Thermoset Components ¹				
Component a	Mixing ratio by weight: 170	Mixing ratio by weight: 170		
Component B	Mixing ratio by weight: 100	Mixing ratio by weight: 100		
Additional Information				

Part A

Type: Isocyanate

Appearance: Colorless to pale yellow liquid

Specific Gravity @ 25°C: 1.086 Viscosity @25°C: 1378 mPa Flash Point, PMCC: >93°C NCO: 19.6 to 20.3 wt%

Bulk Density at 25°C: 9.05 lb/gal

Part B Type: Polyol

Appearance: Yellow liquid Specific Gravity @ 25°C: 1.04 Viscosity @25°C: 680 mPa-s Flash Point, PMCC: >93°C Bulk Density at 25°C: 8.62 lb/gal

Isocyanate Temperature: 25 to 50°CPolyolTemperature: 25 to 50°CMold Temperature: 110°CGel Time: 1:45 minPostcure Temperature: 110°CDemold

Time: 2 to 4 minPostcure Time: 16 hr

NOTE

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