Bayflex® XGT-80

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Bayflex XGT-80 is an elastomeric polyurethane system used in the reaction injection molding (RIM) process. The system is supplied as two liquid components: Component A is a modified diphenylmethane diisocyanate (MDI), and Component B is a polyether polyol system. Note: The polyol component phase-separates upon standing and must be thoroughly mixed via mechanical means prior to use.
The extended gel time of Bayflex XGT-80 gives equipment designers the flexibility to create large, complex parts that can be molded on existing injection machinery. The resin's excellent surface quality and high impact resistance make it a candidate for agricultural equipment, heavy-duty trucks, specialty transportation, and marine applications.

General Information			
Features	Impact resistance, high Excellent appearance		
Uses	Ship application Agricultural application		
Forms	Liquid		
Processing Method	Reaction Injection Molding (RIM)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.04	g/cm³	ASTM D792, ASTM D1622
Molding Shrinkage - Flow (3.18 mm)	0.80 - 0.90	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 3.18 mm)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, 3.18 mm)	25.5	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	150	%	ASTM D638
Flexural Modulus			ASTM D790
-30°C, 3.18 mm	1240	MPa	ASTM D790
23°C, 3.18 mm	572	MPa	ASTM D790
70°C, 3.18 mm	228	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [1] (3.18 mm)	110	kN/m	ASTM D624
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	640	J/m	ASTM D256
Instrumented Dart Impact [2]			ASTM D3763
-30°C, 3.18 mm	5.42	J	ASTM D3763
23°C, 3.18 mm	33.9	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	53.0	°C	ASTM D648

CLTE - Flow (3.18 mm)	1.1E-4	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**		**Test Method**
Flame Rating (3.18 mm)	HB		UL 94
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components [3]			
Component a	Mixing ratio by weight: 140, mixing ratio by capacity: 120		
Component B	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Shelf Life [4] (32°C)	26	wk	
Demold Time	1.5	min	
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Heat Sag - 4 in Overhang [5] (121°C, 3.18 mm)	1.50	cm	ASTM D3769

Part A
Type: Isocyanate
Appearance: Colorless to straw yellow liquid
Specific Gravity @ 25°C: 1.21
Viscosity @25°C: 700 mPa-s
Flash Point PMCC: 213 °C
NCO: 22.6 - 23.1 %
Part B
Type: Polyol
Appearance: Pale green to amber liquid
Specific Gravity @ 25°C: 1.04
Viscosity @25°C: 550 mPa-s
Flash Point PMCC: 112 °C
Water: <0.09 wt%
Molding Parameters
Material Temperature - Component A: 32 to 38 °C
Material Temperature - Component B: 32 to 38 °C
Mold Temperature: 66 to 71 °C
Polyol Nucleation - Specific Gravity: 0.70 to 0.80 0
shot time: 10 sec

NOTE	
1.	C mould
2.	2.24 m/sec
3.	1.05 Index
4.	0.125 in
5.	1 hr

Recommended distributors for this material

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