Bayflex® XGT-4

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Bayflex XGT 4 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 4 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.
As with any product, use of Bayflex XGT 4 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information		
Features	Impact resistance, high Excellent appearance	
Uses	Ship application Agricultural application Application in Automobile Field	
Forms	Liquid	
Processing Method	Reaction Injection Molding (RIM)	
Physical	**Nominal Value**	**Unit**
Specific Gravity		
-- [1]	1.04	g/cm³
-- [2]	1.07	g/cm³
-- [3]	1.21	g/cm³
Molding Shrinkage - Flow	1.4	%
Moisture Content		wt%
Viscosity		
25°C [4]	700	mPa·s
25°C [5]	600	mPa·s
Flash Point		
-- [6]	114	°C
-- [7]	213	°C
NCO [8]	23	%
Hardness	**Nominal Value**	**Unit**
Durometer Hardness (Shore A)	80	
Mechanical	**Nominal Value**	**Unit**
Tensile Strength (Break)	13.0	MPa
Tensile Elongation (Break)	370	%

Flexural Modulus		
-30°C	224	MPa
23°C	25.7	MPa
70°C	14.0	MPa
Elastomers	**Nominal Value**	**Unit**
Tear Strength	50.8	kN/m
Thermal	**Nominal Value**	**Unit**
CLTE - Flow	1.1E-4	cm/cm/°C
Thermoset	**Nominal Value**	**Unit**
Thermoset Components		
Component a	Mixing ratio by weight: 65	
Component B	Mixing ratio by weight: 100	
Injection	**Nominal Value**	**Unit**
Mold Temperature	60.0 - 70.0	°C
Injection instructions		
Chemical Temperature: 32 to 38°CPolyol Nucleation Specific Gravity: 0.75 to 0.80Maximum Shot Time: 8 to 10 secTypical Cure Time, 0.125 in: 2 to 3 min		
NOTE		
1.	Component B (Polyol)	
2.	System	
3.	Component A (Isocyanate)	
4.	Component A (Isocyanate)	
5.	Component B (Polyol)	
6.	Component B (Polyol), PMCC	
7.	Component A (Isocyanate), PMCC	
8.	Component A (Isocyanate)	

Recommended distributors for this material

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