

Bayflex® XGT-2 (50% BaSO₄)

Polyurethane (MDI)

Covestro - PUR

Message:

Bayflex XGT 2 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. The extended gel time of Bayflex XGT 2 gives equipment designers the flexibility to create large, complex parts that can be molded on existing injection machinery. The resin's soft feel and the ability to tailor part density through the addition of barium sulfate make this product ideal for applications that require some level of sound absorption, such as floor coverings in heavy trucks or equipment. In addition, the material is soft enough to be used for producing seals, gaskets and wire harness type applications. As with any product, use of the Bayflex XGT 2 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Filler / Reinforcement	Barium sulfate, 50% filler by weight		
Features	Noise reduction		
	Soft		
Uses	Washer		
	Seals		
	Application in Automobile Field		
Forms	Liquid		
Processing Method	Reaction Injection Molding (RIM)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm ³	ASTM D1622, ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	80		ASTM D2240
Shaw A, 5 seconds	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
Transverse flow: Yield ¹	5.00	MPa	ASTM D412
Transverse flow: Yield ²	5.82	MPa	ASTM D412
Flow: Yield ³	5.10	MPa	ASTM D412
Flow: Yield ⁴	5.87	MPa	ASTM D412
Tensile Elongation			ASTM D412
Transverse flow: Fracture ⁵	250	%	ASTM D412
Flow: Fracture ⁶	250	%	ASTM D412
Transverse flow: Fracture ⁷	280	%	ASTM D412
Flow: Fracture ⁸	270	%	ASTM D412
Tear Strength			
Transverse flow ⁹	5.27	kN/m	ASTM D1938

Flow ¹⁰	4.24	kN/m	ASTM D1938
Transverse flow ¹¹	17.1	kN/m	ASTM D624
Flow ¹²	16.5	kN/m	ASTM D624
Compression Set	27	%	ASTM D395B
Flammability	Nominal Value		Test Method
Flammability	Pass		FMVSS 302
Low temperature toughness-16 hr (-29°C)	Pass		SAE J80
Thermoset	Nominal Value		Test Method
Thermoset Components			
Component a	Mixing ratio by weight: 16		
Component B	Mixing ratio by weight: 100		
Additional Information	Nominal Value		Test Method
Part A Type: Isocyanate Specific Gravity @ 25°C: 1.21 Viscosity @25°C: 700 mPa-s Flash Point PMCC: 213 °C NCO: 22.6 to 23.1 wt% Part B Type: Polyol Specific Gravity @ 25°C: 1.86 Viscosity @25°C: 8000 mPa-s Flash Point PMCC: 114 °C Water: 0.09 wt% max Molding Parameters Isocyanate Temperature: 38 to 43°C Slurry Temperature: 63 to 68°C Slurry or Polyol Nucleation: 5 to 10% Maximum Shot Time: 7 sec Typical Cure Time, 0.125 in: 3 min Slurry Mixing Ratio, Polyol/BaSO4, by weight: 100/138 Polyol Mixhead Pressure: 1700 to 1800 psi Isocyanate Mixhead Pressure: 1850 to 1950 psi			
Injection	Nominal Value	Unit	
Mold Temperature	65.6 - 76.7	°C	
NOTE			
1.	510 mm/min		
2.	C mold, 510 mm/min, aging 70 hr at 70°C		
3.	C mold, 510mm/min		
4.	C mold, 510 mm/min, aging 70 hr at 70°C		
5.	510 mm/min		
6.	510 mm/min		
7.	Mouth Model C, 510 mm/min, aging 70 hr at 70°C		
8.	Mouth Model C, 510 mm/min, aging 70 hr at 70°C		
9.	Split		
10.	Split		

11.	C mould
12.	C mould

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