Bayflex® XGT-15

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Bayflex XGT-15 is an elastomeric polyurethane system used in the reaction injection molding (RIM) process. The formulated system is supplied as two liquid components: Component A is a diphenylmethane diisocyanate (MDI) prepolymer, and Component B is a polyether polyol system.
Bayflex XGT-15 system has a flexural modulus of 16,00 psi at room temperature. It is used in applications requiring long shot times allowing large parts to be made on smaller equipment. The Bayflex XGT-15 system is suitable for use in glass encapsulation applications, or in applications requiring excellent impact properties, such as bus and truck bumpers or equipment housings. As with any product, use of the Bayflex XGT-15 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, good		
Uses	Car anti-collision bar Shell		
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			ASTM D2240
Shaw A, 3.18mm	94		ASTM D2240
Shaw D, 3.18mm	45		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus (3.18 mm)	110	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	200	mg	ASTM D1044
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, 3.18 mm)	16.5	MPa	ASTM D412
Tensile Elongation (Break, 3.18 mm)	250	%	ASTM D412
Tear Strength [1] (3.18 mm)	78.8	kN/m	ASTM D624
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow (3.18 mm)	1.4E-4	cm/cm/°C	ASTM D696
Thermoset	**Nominal Value**		
Thermoset Components [2]			
Component a	Mixing ratio by weight: 80, mixing ratio by capacity: 68		
Component B	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Additional Information			

Part A
Type: Isocyanate
Appearance: Light yellow to yellow liquid
Specific Gravity @ 25°C: 1.21
Viscosity @25°C: 700 mPa-s
Flash Point PMCC: 213 °C
Part B
Type: Polyol
Appearance: Colorless to pale yellow liquid
Specific Gravity @ 25°C: 1.04
Viscosity @25°C: 1200 mPa-s
Flash Point PMCC: 114 °C
Molding Parameters
Material Temperature: 32 to 38 °C
Mold Temperature: 60 to 70 °C
Typical Cure Time, 0.125 in: 240 to 300 sec
Polyol Nucleation - Specific Gravity: 0.75 to 0.80 0
shot time: 10 to 14 sec

NOTE	
1.	C mould
2.	1.05 Index

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT