

Technical Data Sheet

**Glastic 1401**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

Grade 1401 is an electrical grade of encapsulating material. Characterized by a balance of soft flow and cure rate to ensure complete and proper encapsulation without voiding. Generally too soft for compression molding, but excellent in transfer or injection processes. Directly competitive against epoxy encapsulants on cost and cycle times. Very stable shelf life.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber		
Features	• Electrically Insulating	• Flame Retardant	• Good Electrical Properties
Uses	• Electrical/Electronic Applications	• Electronic Insulation	
Appearance	• Black	• Colors Available	• Tan
Forms	• BMC - Bulk Molding Compound		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.76	1.76 g/cm ³	ASTM D792
Water Absorption (24 hr)	0.25 %	0.25 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Compression Molded)	4150 psi	28.6 MPa	ASTM D638
Flexural Strength (Compression Molded)	12000 psi	82.7 MPa	ASTM D790
Compressive Strength	16000 psi	110 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	1.5 ft·lb/in	80 J/m	ASTM D256
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	290 V/mil	11 kV/mm	ASTM D149
Dissipation Factor (60 Hz)	0.015	0.015	ASTM D150
Arc Resistance	190 sec	190 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	V-0	V-0	UL 94

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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