

Technical Data Sheet

**Glastic 1605**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

Grade 1605 is an excellent low-cost HB material with low shrink and medium strength. Has excellent surface finish and gloss. Can be injection, compression or transfer molded.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber		
Features	• Electrically Insulating • Flame Retardant	• Good Electrical Properties • Good Surface Finish	• High Gloss • High Strength
Uses	• Appliance Components	• Electrical Parts	• Electrical/Electronic Applications
UL File Number	• E23525		
Appearance	• Black	• Colors Available	• White
Forms	• BMC - Bulk Molding Compound		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.94	1.94 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)	7750 psi	53.4 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.80E+6 psi	12400 MPa	ASTM D790
Flexural Strength (Compression Molded)	21000 psi	145 MPa	ASTM D790
Compressive Strength	20000 psi	138 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	7.5 ft·lb/in	400 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, Compression Molded	500 °F	260 °C	ASTM D648
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	430 V/mil	17 kV/mm	ASTM D149
Arc Resistance	181 sec	181 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	• HB • V-0	• HB • 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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