

Product Description

Lytex 64690 BK is a chopped carbon fiber reinforced molding compound. It is easily moldable and provides parts that are high strength, fatigue resistant, with zero VOC and a low density. The carbon fiber is standard modulus PAN based 12K tow.

General

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| Material Status | <ul style="list-style-type: none"> Commercial: Active | SMC capability to be established at ASI global facilities as demand develops |
| Availability | <ul style="list-style-type: none"> Currently compounded at Europe | |
| Filler / Reinforcement | <ul style="list-style-type: none"> 50% of 25 mm CF-12K-Fiber | |
| Features | <ul style="list-style-type: none"> Excellent Mechanical Properties Very good surface profile | |
| Processing Method | <ul style="list-style-type: none"> Compression Molding, data presented are from cut coupons. | |
| Resin | <ul style="list-style-type: none"> Epoxy | |

Physical	Typical	Unit	Test Method
Density (molded)	1.5	g/cm ³	ISO 1183/A
Shrinkage	< 0.00	%	cold mold to cold part
Mechanical	Typical	Unit	Test Method
Tensile Modulus	4.8 E+6 (33)	psi (GPa)	ISO 527-4
Tensile Stress (Break)	27,500 (190)	psi (MPa)	ISO 527-4
Flexural Modulus	3.6 E+6 (25)	psi (GPa)	ISO 14125
Flexural Stress (Break)	53,700 (370)	psi (MPa)	ISO 14125
Impact	Typical	Unit	Test Method
Impact Strength, Charpy	80	kJ/m ²	ISO 179
Thermal	Typical	Unit	Test Method
Heat Deflection 264 psi (1.8 MPa)	>392 (>200)	°F (°C)	ISO 75-2

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.

Company Information

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

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