

**Product Description**

AMC® 85590 is a chopped carbon fiber reinforced molding compound. It is easily moldable and provides parts that are high strength, fatigue resistant and a low density. The carbon fiber is standard modulus PAN based 12K tow.

**General**

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

Physical	Typical	Unit	Test Method
Density (molded)	1.5	g/cm <sup>3</sup>	ISO 1183/A
Shrinkage	< 0.00	%	cold mold to cold part
Mechanical	Typical	Unit	Test Method
Tensile Modulus	3.9 E+6 (27)	psi (GPa)	ISO 527-4
Tensile Stress (Break)	21,700 (150)	psi (MPa)	ISO 527-4
Flexural Modulus	3.6 E+6 (25)	psi (GPa)	ISO 14125
Flexural Stress (Break)	56,600 (390)	psi (MPa)	ISO 14125
Impact	Typical	Unit	Test Method
Impact Strength, Charpy	70	kJ/m <sup>2</sup>	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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