

Engineered composites materials properties summary

LYB is shaping the future of materials with high-performance composites designed to support circular economy principles. Our *Quantum* portfolio includes solutions made with recycled carbon fiber and designed to be low-VOC, styrene-free formulations and highly efficient.

Across sports and leisure, industrial, aerospace and automotive markets, our advanced composites provide exceptional strength, precision and faster production through innovation.



Material reference	Fiber % w/w	Fiber length (inches / mm) & Type	Description	Features, benefits & applications
Quantum				
Styrene-free resin formulations - carbon fiber - PAN based std modulus				
AMC 85691	55%	1/25 48K/12K	AMC with split fibers (48K-12K)	Structural automotive, inner panels, brackets, etc. Sporting goods, golf clubs, bicycle components, medical. Designed for structural applications requiring high stiffness and high strength. Low VOC, styrene-free hybrid resin formulations combines epoxy safety benefits with efficient processing.
AMC 85697	60%	1/25 48K/3K	AMC with split fibers (48K-3K)	
AMC 85693	55%	1/25 3K	AMC with pure 3K fibers	
AMC 85698	55%	1/25 48K	AMC with pure 48K fibers	
AMC 85698 R30	55%	Recycled CF	AMC with recycled carbon fiber	
Forged preg 85675	60%	Bi-axial 0/90	Biaxial reinforcement for co-molding with chopped carbon fiber AMC material	
Forged preg 85695	60%	Continuous 48K	Unidirectional reinforcement for co-molding with chopped carbon fiber AMC materials	

About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow @LyondellBasell on LinkedIn.

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