

FIBERS, FIBER BLENDS & FIBER COMPOUNDS



Marshall Additive
TECHNOLOGIES
DIVISION OF THE R.J. MARSHALL COMPANY

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Natural Fibers: wood, Kayocel recycled (secondary) cellulose, Kayocel virgin bleached alpha (primary) cellulose.

Polymeric & Polymeric Compounds: rapid dispersing aramid pulp, aramid pulp/ mineral compounds, polyethylene pulp, polyethylene pulp/ carbonate/ custom mineral blends, nylon staple, polyester, rayon (available upon special request).

Custom fiber blending/ compounding available upon special request.

Product Code	Type	Color	Specific Gravity	Length	% Fiber
FH80 (80 mesh)	wood	tan	0.2 - 0.25	0.007 in	100
FH20 (20 mesh)	wood	tan	0.2 - 0.25	0.033 in	100
Kayocel KA690	recycle	gray	0.5	0.36 in	90
Aramid AR36IA	polymer	pale yellow	1.44	1.5 mm	100
Aramid AR59CB	compound	pale yellow	2.52	1.5 mm	10
Polyethylene PE24JA	polymer	white	0.91	0.1 mm	100
Polyethylene PE24JC	compound	white	0.92	0.1 mm	25
Nylon NY286	polymer	white	1.14	1/8, 1/4, 1/2 in	100

For more details on additional fiber products and properties visit www.rjmarshall.com under Technical Data and MSDS.

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Applications

Wood Fiber: Wood fibers are principally used as reinforcing fillers in plastics (extruded plastic wood), adhesives, and coatings where color and texture are not a requisite. Coarser grades provide the greatest reinforcement, while finer grades provide the least texture.

Kayocels: Kayocels are primarily used as a reinforcement. Use coarser grades for the greatest reinforcement and compounded grades for easy dispersion. Hydrophobic grades are available.

Recycled Celluloses (news and magazine stock) are used in products - roof coatings, asphalt based caulks, and friction products (gaskets and brakes) - that do not have critical color and texture requirements.

White Celluloses are used in products - paints, coatings and adhesives - that must meet critical color and texture requirements.

Aramids: Rapid dispersing aramids are chemical and temperature resistant fibers that provide superior tensile and impact strength to paints, coatings, adhesives, rubber, brakes, and gaskets. Compounded aramids improve dispersion and aid in product economics. Aramids are very thixotropic and require only small amounts to provide consistent rheology to products.

Polyethylene Pulps: These pulps are inert and highly resistant to corrosive acids, alkali, and aggressive solvents. They are used primarily in coatings, adhesives, and systems exposed to corrosive and aggressive chemicals.



Other Products From Marshall Additive Technologies

ResNsand Ultra:

A series of sized polycarbonate particles that disperse clear in clear coat thermoset resins and considerably increases the abrasion resistance of the polymer. Its primary uses are anti-skid for thermoset poured floors, piers, decks, handicap ramps, shower stalls, baths, hot tubs and aircraft carrier decks.
(see ResNsand Ultra brochure)

Spectrasand:

A series of colored granules and granular blends designed to give color accents to floors and architectural coatings. (see Spectrasand brochure)

Flame Retardants & Smoke Suppressants:

An extensive line of flame retardants and smoke suppressants including alumina trihydrate (1um), magnesium hydroxide, zinc borate, zinc stannate and zinc hydroxystannate. Our C-TEC products are designed to be cost effective replacements for antimony trioxide and ammonium octamolybdate (AOM).
(see Flame Retardants brochure)

Specialty Additives:

Rapid dispersing, "non-balling" tire sealant fibers for use in both on and off-road tires that provide structure and strength in sealing tire punctures.

Wood fibers for glass partitioning and glass APC (atomized protective coat) used in preventing glass oxidation during the cooling process.

Q2350 is a nano surface modified alumina monohydrate, designed to decrease cycles in the manufacture of thermoplastic injection molding.
(see Specialty Additives brochure)



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