

A-C® WAXES FOR RUBBER PROCESSING

PE waxes have following features

- Excellent metal release properties from Banbury, mill, and calender rolls.
- No adverse effect on scorch, cure rate, or general physical properties (tensile strength, elongation, hardness).
- No blooming or bleeding in either green or cured stocks.
- Improved filler dispersion, particularly carbon blacks.
- Improved mold flow and mold release.
- Increased extrusion rates and improved surface finish
- Compatible with all elastomers.
- Excellent chemical and oxidation resistance.
- Excellent electrical properties.
- Disperse readily in the temperature range of 75-95°C and above.



RUBBER TYPE	A-C® GRADE	BENEFIT	DOSAGE
Neoprene	A-C 617A	Improved processing characteristics such as mold flow and mill release; reduced die swell; improved extrudate finish; non-bleeding; does not adversely affect physical properties and adhesion characteristics; allows formulators to replace a portion of elastomer without detracting from cure rate and physical properties; preferred product due to combination of lower melting point and viscosity	2-6 phr
EPDM	A-C 617A	Reduced Mooney viscosity and mill tackiness; improved mold flow, mold release and building tack with no sacrifice in cure rate or physical properties	4-6 phrs
Nitrile Rubber	A-C 617A	Very effective processing aid for nitrile rubber compounds; milled stocks sheet faster and smoother; lower viscosities; decreased scorch sensitivity; reduced nerve and shrinkage contributing to better calendering and extrusion properties; improved mold flow and mold release	3-5 phr
SBR	A-C 617A	Reduced viscosity and scorch sensitivity; improved mold flow and mold release; the non-blooming characteristic leads to no decrease in green tack or adhesive qualities necessary for roll covering, belting and shoe sole applications; improved abrasion and cut-growth	2-5 phr
Hypalon	A-C 617A	Shortened mixing cycles; decreased viscosity; reduced shrinkage and scorch sensitivity; improved mold flow, mold release, and abrasion and crack-growth resistance; provides excellent handling characteristics during mill and calender operations	3-5 phr
Viton	A-C 617A	Better mold flow and mold release with no change in cure rate; improved surface quality of both extruded and molded parts; no negative effect on original or ageing properties, as well as green tack and adhesion properties	3-5 phr
Rubber Mixing Aid	A-C 6 A-C 617A A-C 629	Great improvements in Banbury mixing and mill handling with the smooth release of the stock; improved release; reduced viscosity; increased extrusion rates	3-4 phr
Carbon Black Dispersion	A-C 617A A-C 400A	Greatly improving carbon black dispersion with subsequent increase in tensile strength and hardness	5 phr
Tire Applications	A-C 6A A-C 617A	Excellent internal lubrication for the compound; facilitates calender release; improves the surface smoothness of the finished sheet; no interfering with building tack or other physical properties; modest improvement in air holding properties; improved extrusion characteristics (rate, finish, shrinkage); improved dispersions of fillers, zinc and titanium oxides; better mold and mold release for thread designs; reduced processing temperatures for mixing and extrusion; excellent scorch safety	n/a
Thermoplastic Rubber for Shoe Soles	A-C 400A	Extremely efficient flow aid greatly assisting injection at low pressure; reduced tackiness of compound; fewer flow marks; reduction in "white spots"; reduction in cycle time; permitting greater use of radial polymers for better abrasion; no interfering with adhesion or lacquering; no negative effect on physical properties	0.5-1 phr



For more information:

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<https://industrial.honeywell.com/us/en/applications/specialty-additives>

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