

A-C® PE Waxes for Rubber Processing

PE waxes have following features:

1. Excellent metal release properties from Banbury, mill, and calender rolls.
2. No adverse effect on scorch, cure rate, or general physical properties (tensile strength, elongation, hardness).
3. No blooming or bleeding in either green or cured stocks.
4. Improved filler dispersion, particularly carbon blacks.
5. Improved mold flow and mold release.
6. Increased extrusion rates and improved surface finish
7. Compatible with all elastomers.
8. Excellent chemical and oxidation resistance.
9. Excellent electrical properties.
10. 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 calendaring 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 |

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