

POLYBOND® 1009

Polymer Modifier

POLYBOND® 1009 is an acrylic acid modified high density polyethylene copolymer.

CAS Number 9010-77-9

Typical Physical Properties of POLYBOND® 1009

Property	Typical Value	Test Based On
Appearance	Off-white Pellet	Visual
Melt Flow Rate @ 190°C, 2.16Kg	5.0 g/10 min	ASTM D-1238
Acrylic Acid Content	Ultra-High*	Internal FTIR Procedure
Density @ 23°C	0.95 g/cm ³	ASTM D-792
Bulk Density	0.5 g/ cm ³	ASTM D-1895B
Melting Point	127°C	DSC

* Ultra-High = Acrylic Acid Content typically in the range of 5.5 to 6.5%.

Applications

- Additive for polyethylene providing improved adhesion to metals and other polar surfaces

Food Contact

POLYBOND® 1009 is approved for use under a several sections of the USA FDA 21CFR regulations as well as the European Food Regulations. Check with the Product Safety and Regulatory Affairs Department of Addivant™ for current status.

Regulatory Status

The components of POLYBOND® 1009 are listed on USA TSCA inventory. For information on other inventory listings, see Section 15 (Regulatory Information) of the MSDS for POLYBOND® 1009.

Storage & Handling Precautions

Keep POLYBOND® 1009 dry prior to processing since it is hygroscopic in nature. Tie liners of open boxes when not in use to prevent exposure to moisture. If exposure occurs, POLYBOND®1009 can be dried in a hopper dryer or oven for several hours at 95-100°C to remove moisture. A slight pungent odor is normal during processing of POLYBOND® 1009. Purge equipment with polyethylene before and after running POLYBOND® 1009.

For additional handling and toxicological information consult the Addivant™ Material Safety Data Sheet

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