Polybond™ 3009

Polymer Modifier

POLYBOND™ 3009 is a maleic anhydride modified high density polyethylene.

CAS Number 25213-02-9

Typical Physical Properties of POLYBOND™ 3009

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
Maleic Anhydride Content	High*	ASTM D-6047
Density @ 23°C	0.95 g/cm^3	ASTM D-792
Bulk Density	0.6 g/ cm^3	ASTM D-1895B
Melting Point	127°C	DSC

*** High = Maleic Anhydride Content typically in the range of 0.8 to 1.2%.**

Applications

- Coupling agent for glass-filled polyethylene providing improved physical properties including strength
- Low gel count making this product ideal for use as coupling agent and adhesion promoter in sheet and film applications
- Compatibilizer for polyethylene/polyamide blends giving enhanced hydrolytic stability and strength properties
- Coupling agent for mineral-filled polyethylene offering improved strength and impact properties

Food Contact

For details please contact SI Group Regulatory Affairs

Regulatory Status

The components of **POLYBOND™ 3009** are listed on USA TSCA inventory. For information on other inventory listings, see Section 15 (Regulatory Information) of the MSDS for **POLYBOND™ 3009**.

Storage & Handling Precautions

Keep **POLYBOND™ 3009** dry prior to processing. Loss of anhydride functionality may occur due to conversion to acid groups by reaction with atmospheric moisture. Tie liners of open boxes when not in use to prevent exposure to moisture. If exposure occurs, **POLYBOND™ 3009** can be dried in a hopper dryer or oven for three hours at 95-100°C to remove moisture. A slight pungent odor is normal during processing of **POLYBOND™ 3009**. Purge equipment with polyethylene before and after running **POLYBOND™ 3009**.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet