

Polybond™ 3002

Polymer Modifier

POLYBOND™ 3002 is a maleic anhydride modified polypropylene homopolymer.

CAS Number 9003-07-0

Typical Physical Properties of POLYBOND™ 3002

Property	Typical Value	Test Based On
Appearance	Off-white Pellet	Visual
Melt Flow Rate @ 230°C, 2.16Kg	9.0 g/10 min	ASTM D-1238
Maleic Anhydride Content	Low*	ASTM D-6047
Density @ 23°C	0.91 g/cm ³	ASTM D-792
Bulk Density	0.5 g/ cm ³	ASTM D-1895B
Melting Point	157°C	DSC

* Low = Maleic Anhydride Content typically in the range of 0.15 to 0.30%.

Applications

- Coupling agent for glass-filled polypropylene providing improved physical properties including strength
- Low functionality and high viscosity allowing use with processing equipment which does not have low feed rate capability
- Compatibilizer for blends of recycled Nylon and polypropylene giving enhanced hydrolytic stability and strength properties
- Coupling agent for mineral and cellulose fiber-filled polypropylene offering improved strength and impact properties
- Tie-layer giving improved compatibility between multilayer polar and non-polar materials.

Food Contact

For details please contact SI Group Regulatory Affairs

Regulatory Status

The components of **POLYBOND™ 3002** are listed on USA TSCA inventory. For information on other inventory listings, see Section 15 (Regulatory Information) of the MSDS for **POLYBOND™ 3002**.

Storage & Handling Precautions

Keep **POLYBOND™ 3002** 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™ 3002** can be dried in a hopper dryer or oven for three hours at 105°C to remove moisture. A slight pungent odor is normal during processing of **POLYBOND™ 3002**. Purge equipment with polypropylene before and after running **POLYBOND™ 3002**.

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