Maleic Anhydride Grafted Copolymer TAFMER-M

1. Product Overview

TAFMER-M is a maleic anhydride-modified olefin copolymer, commonly used for modifying various engineering plastics with excellent modification effects. It features the following properties:

1. High content of effective maleic anhydride and strong polarity;

2. Low content of free maleic anhydride and excellent transparency;

3. Low specific gravity, low glass transition temperature, and good low-temperature impact resistance;

4. Stable chemical properties.

2. Product Specifications

Product Parameter	Unit	Test Method	MD715	MA9015	MA8510	MH7010	MH7020	MH5020	MH5040
Melt Flow Rate @190°C	g/10 min	ASTM D 1238	1.5	11	2.4	0.9	0.7	0.6	0.5
Melt Flow Rate @230°C	g/10 min	ASTM D 1238	3	23	5	1.8	1.5	1.2	1.1
Density	kg/m³	ASTM D 1505	872	896	885	870	873	866	870
Grafting Rate*	219-229	MCI Method	1.5	1.5	1.0	1.0	2.0	2.0	4
Tensile Strength at Break	MPa	ASTM D 638	>10	16	>24	>8	>8	>3	>8
Elongation at Break	%	ASTM D 638	>1000	850	>1000	>1000	>1000	>1000	>1000
Surface Hardness	Shore A	ASTM D 2240	72	89	85	70	70	55	63
Brittleness Temperature	°C	ASTM D 746	<-70	<-70	<-70	<-70	<-70	<-70	<-70

3. Application Fields

1. **Nylon Toughening Agent**: Used for toughening PA6, PA66, reinforced toughening, flame-retardant toughening, reinforced flame-retardant toughening, etc., to improve the impact resistance, cold resistance, molding processability of nylon, and reduce water absorption;

2. **PP/PE Toughening Agent**: Used as a compatibilizer and toughening agent for PE, PP and their modified materials, PA/PE, PA/PP alloys;

3. **Cable Material Compatibilizer**.