Polybutene-1 DP8510M

Polybutene-1

Product Description

Polybutene-1 grade **DP8510M** is a random copolymer of butene-1 with high ethylene content.

This product is primarily used in hot melt adhesive formulations and to improve rheological properties in blends. **DP8510M** is highly compatible with polypropylene due to its similar structure but less compatible in blends with polyethylene, but still easily dispersable.

Its relatively slow kinetics of crystallization allow for an excellent wetting behavior. Its high shear-sensitive flow behavior means that it remains easily dispersable also in even more incompatible polymers like thermoplastic elastomers.

This product is not intended for use in food contact, medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Typical Customer Applications	Coatings, Protective, Nonwoven Spunbond, Nonwoven Staple Fibres, Other Industrial, Speciality Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.897	g/cm³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	40	g/10 min
Mechanical			
Flexural modulus	ISO 178	120	MPa
Tensile Strength at Break	ISO 8986-2	25	MPa
Tensile Elongation at Break	ISO 8986-2	300	%
Note: Measured on specimens conditioned for 10 days at 20°C			
Thermal			
Melting temperature	DSC		
		94	°C
Note: Tm1			
		81	°C
Note: Tm2			

Additional Properties

Tm2 corresponds with the melting point of crystalline form 2 which is measured immediately after solidification. Tm2 corresponds with the melting point available for each batch on the Certificate of Analysis (COA).

Recommended processing temperatures: 150°C to 180°C. In cases were higher temperatures are required please contact your appropriate technical contact for support.

Notes

Typical properties; not to be construed as specifications.