

Polybutene-1 DP8510M

Polybutylene

LyondellBasell Industries

Message:

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.

General Information			
Features	Random copolymer		
Uses	Films		
	Protective coating		
	staple fiber		
	Spunbond nonwoven fabric		
	Industrial application		
	Non-woven fabric		
	Adhesive		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.897	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	40	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	25.0	MPa	ISO 527-2
Tensile Strain (Break)	300	%	ISO 527-2
Flexural Modulus	120	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)			DSC
-- ¹	81.0	°C	DSC
-- ²	94.0	°C	DSC
Additional Information			
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).			
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 180	°C	
Extrusion instructions			
Recommended processing temperatures: 150°C to 180°C. In cases were higher temperatures are required please contact your appropriate technical contact for support.			
NOTE			

1.	Tm2
2.	Tm1

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