



Polybutene-1 DP 8510M

LyondellBasell Industries - Polybutylene

Monday, November 4, 2019

General Information

Product Description

Polybutene-1 grade Koattro 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. Koattro 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.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Thermal Stability • Medium Flow	• Medium Stiffness • Random Copolymer	
Uses	• Adhesives • Film • Hygiene	• Industrial Applications • Nonwovens • Protective Coatings	• Spunbond Nonwovens • Staple Fibers
Forms	• Pellets		
Processing Method	• Fiber (Spinning) Extrusion		

ASTM & ISO Properties ¹

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)	3630	psi	ISO 527-2
Tensile Strain (Break)	300	%	ISO 527-2
Flexural Modulus	17400	psi	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			ISO 11357-3
-- ²	178	°F	
-- ³	201	°F	

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	302 to 356	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tm2

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).

³ Tm1