



Polybutene-1 DP 0400M

LyondellBasell Industries - Polybutylene

Monday, November 4, 2019

General Information

Product Description

Polybutene-1 grade Koattro DP 0400M is a semi-crystalline homopolymer, which can be used where creep, environmental stress crack resistance and elevated temperature performance are key requirements.

This polymer is highly compatible with polypropylene due to its similar molecular structure. It is less compatible in blends with polyethylene but it is still easily dispersible.

Its relative slow crystallization kinetics allows for an excellent wetting behaviour. Besides its high shear sensitive flow behaviour it remains easily dispersible, 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	• Creep Resistant • Good ESCR (Stress Crack Resist.) • Good Thermal Stability	• Homopolymer • Medium Flow • Medium Stiffness	• Rapid Wetting • Semi Crystalline
Uses	• Color Concentrates • Spunbond Nonwovens	• Staple Fibers • Textile Applications	
Processing Method	• Meltblown Nonwovens	• Spunbond Nonwovens	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit
Density	0.915	g/cm ³
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min
Mechanical	Nominal Value	Unit
Tensile Stress (Break)	4210	psi
Tensile Strain (Break)	300	%
Flexural Modulus	65300	psi
Thermal	Nominal Value	Unit
Melting Temperature		
-- 2	237	°F
-- 3	259	°F

Notes

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

² Tm2

³ Tm1