

Polybutene-1 DP 0400M

Polybutylene
LyondellBasell Industries

Message:

Polybutene-1 grade 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 crystalliation 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.

Foodlaw compliance information about this product can be found in separate product documentation.

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

General Information			
Features	Good Creep Resistance		
	High ESCR (Stress Crack Resist.)		
	Homopolymer		
	Semi Crystalline		
Uses	Coating Applications		
	Industrial Applications		
	Plastics Modification		
	Spunbond Nonwovens		
	Staple Fibers		
	Wire & Cable Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.900	g/cm ³	ASTM D792B
--	0.915	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	80	g/10 min	ASTM D1238
190°C/2.16 kg	15	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	24.0	MPa	ASTM D638
Yield ²	22.0	MPa	ISO 8986-2
Break ³	29.0	MPa	ISO 8986-2
Tensile Elongation			
Yield ⁴	4.0	%	ASTM D638
Break ⁵	300	%	ISO 8986-2
Flexural Modulus			

1% Secant ⁶	1240	MPa	ASTM D790A
-- ⁷	450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	91	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	108	°C	ASTM D648
Melting Temperature			DSC
-- ⁸	114	°C	
-- ⁹	126	°C	

NOTE

1. 50 mm/min
2. Conditioned 10 days at 20°C
3. Conditioned 10 days at 20°C
4. 51 mm/min
5. Conditioned 10 days at 20°C
6. 1.3 mm/min
7. Conditioned 10 days at 20°C
8. Tm2
9. Tm1

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