

Capilene® M 45 F

Polypropylene Homopolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® M 45 F is a polypropylene homopolymer intended for cast film extrusion.

CAPILENE ® M 45 F features: slip and anti-blocking additives, slightly modified molecular weight distribution, high gloss, high transparency and good stiffness.

CAPILENE ® M 45 F is suitable for: high quality cast films for packaging food and other items, lamination films, water-quenched blown films; blow molding and injection molding products.

General Information	
Additive	Antiblock Slip
Features	Antiblocking Good Stiffness High Clarity High Gloss Homopolymer Slip
Uses	Blow Molding Applications Cast Film Film Food Packaging Laminates Packaging
Agency Ratings	EC 1907/2006 (REACH)
Forms	Pellets
Processing Method	Blow Molding Blown Film Cast Film Injection Molding

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	32.0	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2/50

Tensile Elongation			
Yield ²	13	%	ASTM D638
Yield	13	%	ISO 527-2/50
Flexural Modulus			
--	1500	MPa	ASTM D790
-- ³	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	30	J/m	ASTM D256
23°C	3.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	95.0	°C	ASTM D648
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	154	°C	ISO 306/A, ASTM D1525 ⁴
Optical	Nominal Value	Unit	Test Method
Haze (40.0 μm)	2.5	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	Loading 1 (10 N)		

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