

Ducor® 1102 M

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 1102M is a homopolymer for extrusion applications. Ducor 1102M shows an easy processability and a good stiffness/impact balance at ambient temperature.

Food Contact Applications: This grade is in compliance with most regulations regarding food contact applications (EU, FDA). Specific information is available upon request.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Homopolymer		
Uses	Cast Film		
	Monofilaments		
	Oriented Film		
	Strapping		
	Tape		
	Thermoforming Applications		
	Yarn		
Agency Ratings	EC 1907/2006 (REACH)		
	EC 1935/2004		
	EN 71-3		
	EU 10/2011		
	EU 2000/53/EC		
	EU 2002/96/EC (WEEE)		
	EU 2005/84/EC		
	EU 94/62/EC		
	FDA 21 CFR 177.1520(a) 1 (i)		
	FDA 21 CFR 177.1520(c) 1.1a		
RoHS Compliance	RoHS Compliant		
Processing Method	Cast Film		
	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	77.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	9.0	%	
Break	> 50	%	
Coefficient of Friction (vs. Itself - Dynamic, Cast Film)	> 0.50		DIN 53375
Films	Nominal Value	Unit	Test Method
Tensile Elongation			DIN 53455
MD : Break, Cast Film	670	%	
TD : Break, Cast Film	700	%	
Flexural Modulus			DIN 53121
MD : Cast Film	670	MPa	
TD : Cast Film	650	MPa	
Dart Drop Impact ¹ (Cast Film)	330	g	ASTM D1709
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.6	kJ/m ²	
23°C	3.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	15	kJ/m ²	
23°C	130	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A
--	90.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (20°, Cast Film)	130		ISO 2813
Haze (Cast Film)	0.50	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Tear Strength ²			DIN 53455
MD	43.0	MPa	
TD	39.0	MPa	
NOTE			

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| 1. | F50 |
| 2. | Cast Film |

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