

Ducor® 1101 N

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 1101 N is a polypropylene homopolymer fibre grade characterized by medium molecular weight distribution and medium crystallinity providing excellent and consistent process and product behaviour. Ducor 1101 N is particularly suitable for the production of fine denier staple fibres, medium tenacity continuous filaments (CF) and high resilience bulked continuous filaments (BCF). The product comprises an advanced phenol free stabiliser package providing superior gasfading resistance and inherent basic UV-stability.

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			
Additive	Anti-gas fading 2		
	UV Stabilizer		
Features	Food Contact Acceptable		
	Gas-fading Resistant		
	Good Processability		
	Good UV Resistance		
	Homopolymer		
	Med.-Wide Molecular Weight Distrib.		
	Semi Crystalline		
Uses	BCF Yarn		
	Fibers		
	Filaments		
	Staple Fibers		
	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		
Physical	Nominal Value	Unit	Test Method

Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	78.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.5	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	15	kJ/m ²	
23°C	110	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

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