Ducor® 1105 N

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 1105 N is a polypropylene homopolymer fibre grade characterized by medium molecular weight distribution and medium crystallinity providing stable and consistent process and product behaviour. Ducor 1105 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 contains a phenol-free stabilizer package, providing excellent gasfading resistance.
Food Contact Applications: This grade is in compliance with most regulations regarding food contact applications (EU, FDA). Specific information is available upon request.
Applications
Staple fibres, BCF/CF

General Information	
Additive	Anti-smoke and fading 2
Features	Semicrystallization Homopolymer Resistance to gas fading Workability, good Compliance of Food Exposure Medium wide molecular weight distribution
Uses	BCF filament staple fiber
Agency Ratings	EC 1907/2006 (REACH) EC 1935/2004 EN 71-3 EU 2000/53/EC EU 2002/96/EC (WEEE) EU 2005/84/EC EU 94/62/EC FDA 21 CFR 176.170(c), Table 1 FDA 21 CFR 176.170(c), table 2 FDA 21 CFR 177.1520(a) 1 (i) FDA 21 CFR 177.1520(b) FDA 21 CFR 177.1520(c) 1.1a Europe 10/1/2011 12:00:00 AM
RoHS Compliance	RoHS compliance

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	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	%	ISO 527-2/50
Fracture	> 50	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.5	kJ/m^2	ISO 179/1eA
23°C	3.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	15	kJ/m^2	ISO 179/1eU
23°C	110	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	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

Recommended distributors for this material

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