

DuPure® R 87 E

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Description
DuPure R 87 E is a polypropylene homopolymer fibre grade, characterized by a narrow/medium molecular weight distribution and a medium crystallinity, providing excellent and consistent process and product behaviour. DuPure R 88 E 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 stabilizer package, providing superior gas fading resistance and inherent basic UV stability.

Applications
DuPure R 87 E is suitable for: staple fibres, CF-yarns, high-resilience BCF.

General Information			
Additive	Anti-gas fading		
	UV Stabilizer		
Features	Food Contact Acceptable		
	Gas-fading Resistant		
	Good Processability		
	Good UV Resistance		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Resilient		
Uses	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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