

Ducor® 1087 K

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 1087K is a polypropylene homopolymer for extrusion- & thermoforming applications, requiring high transparency and improved stiffness. The product is nucleated and clarified, and contains antistatic agents. Ducor 1087K exhibits excellent processability, and very good optical and mechanical properties of thermoformed parts.

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	Antistatic
	Clarifier
	Nucleating Agent
Features	Antistatic
	Food Contact Acceptable
	Good Processability
	High Clarity
	Homopolymer
	Nucleated
	Opticals
Uses	Containers
	Cups
	Packaging
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
Appearance	Clear/Transparent
Processing Method	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)	3.1	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	79.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2/1
Tensile Stress (Yield)	37.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	> 25	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	150	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	58.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	156	°C	ISO 306/A
--	94.0	°C	ISO 306/B
Melting Temperature (DSC)	165	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (1000 µm, Injection Molded)	30	%	ASTM D1003

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