

Ducor® 1084K

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 1084K is a polypropylene homopolymer for extrusion- & thermoforming applications, requiring high transparency and stiffness. The product is nucleated and clarified, and contains antistatic agents. Ducor 1084K 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.

Applications

Thermoformed packaging, e.g. high transparent trays, cups and containers

General Information	
Additive	Nucleating agent
	Clarifier
	Antistatic property
Features	Nucleated
	Rigidity, high
	Optical
	Homopolymer
	Antistatic property
	Workability, good
	Definition, high
	Compliance of Food Exposure
Uses	Packaging
	Cup
	Container
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

RoHS Compliance	RoHS compliance
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)	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2050	MPa	ISO 527-2/1
Tensile Stress (Yield)	41.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.0	%	ISO 527-2/50
Fracture	> 25	%	ISO 527-2/50
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)	180	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	115	°C	ISO 75-2/B
1.8 MPa, not annealed	69.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	158	°C	ISO 306/A
--	100	°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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