

Ducor® 1104K

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 1104K is a polypropylene homopolymer for extrusion and thermoforming applications. Ducor 1104K shows an easy processability and a good stiffness/impact balance at ambient temperature. The extremely low water carry-over is a special advantage for the production of tapes.

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 parts, tape yarns, monofilaments, strapping

General Information			
Features	Rigid, good		
	Homopolymer		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
Uses	Strap		
	monofilament		
	Belt material		
	Line		
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		
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)	3.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	74.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	9.0	%	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	1.7	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	17	kJ/m ²	ISO 179/1eU
23°C	190	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

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