

Ducor® 2300 K

Polypropylene Impact Copolymer

Ducor Petrochemicals BV

Message:

Ducor 2300 K is a heterophasic propylene copolymer. Typical applications are crates, containers and closures.

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			
Features	Food Contact Acceptable		
	Impact Copolymer		
Uses	Closures		
	Containers		
	Crates		
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) 3 (i)		
	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
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)	4.2	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	53.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	> 50	%	

Tensile Creep Modulus ¹ (1000 hr)	260	MPa	ISO 899-1
Shear Modulus	590	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.5	kJ/m ²	
-20°C	4.0	kJ/m ²	
0°C	5.5	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	70	kJ/m ²	
-20°C	80	kJ/m ²	
0°C	140	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	2.0	kJ/m ²	
-20°C	3.0	kJ/m ²	
0°C	4.0	kJ/m ²	
23°C	11	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A
--	71.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
NOTE			

1. elongation <0.5%

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