

Ducor® DE1040N

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor DE1040N is a nucleated propylene homopolymer, with a narrow/medium molecular weight distribution. Ducor DE1040N has been designed with a very high stiffness.

Food Contact Applications: This grade is in compliance with regulations regarding food contact applications (EU, FDA). Specific information is available upon request.

Applications

Furniture

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Nucleated		
	Ultra High Stiffness		
Uses	Furniture		
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)	93.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/1
Tensile Stress (Yield)	40.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50

Yield	7.0	%	
Break	> 20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.0	kJ/m ²	
23°C	3.3	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	16	kJ/m ²	
23°C	120	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	1.8	kJ/m ²	
23°C	2.8	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	158	°C	ISO 306/A
--	102	°C	ISO 306/B
Melting Temperature (DSC)	165	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (1000 µm, Injection Molded)	72	%	ASTM D1003

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

