

Ducor® DE1040U

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor DE1040U is a polypropylene homopolymer with a narrow/medium molecular weight distribution. The product is nucleated, and shows a very high flowability and excellent stiffness.

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

Applications

Injection moulding: thinwalled packaging,

Compounding: High flow GF reinforced compounds

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Flow		
	High Stiffness		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Nucleated		
Uses	Compounding		
	Thin-walled 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		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183

Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	75	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	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	1.2	kJ/m ²	
23°C	2.1	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	10	kJ/m ²	
23°C	56	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	1.0	kJ/m ²	
23°C	2.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	105	°C	ISO 75-2/B
1.8 MPa, Unannealed	62.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	157	°C	ISO 306/A
--	100	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze	70	%	ASTM D1003

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