

DuPure® U 76

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Description

DuPure U 76 is a nucleated polypropylene homopolymer with a narrow/medium molecular weight distribution. The product shows a very good flowability and an excellent stiffness.

Applications

DuPure U 76 is suitable for: thin-walled packaging.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Flow		
	High Stiffness		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Nucleated		
Uses	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		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	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	1.3	kJ/m ²	
23°C	2.7	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	13	kJ/m ²	
23°C	75	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	1.5	kJ/m ²	
23°C	2.5	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 (1000 μm)	67	%	ASTM D1003

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