

DuClear® U 73 A

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Description

DuClear U 73 A is a clarified polypropylene homopolymer. The product is nucleated and shows a very good flowability, stiffness, high transparency and anti-electrostatic properties.

Applications

DuClear U 73 A is suitable for: thin-walled packaging with high transparency.

General Information			
Additive	Clarifier		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	Good Flow		
	Good Stiffness		
	High Clarity		
	Homopolymer		
	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		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	48	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	1900	MPa	ISO 527-2/1
Tensile Stress (Yield)	39.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	> 20	%	
Shear Modulus	1000	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.0	kJ/m ²	
0°C	1.5	kJ/m ²	
23°C	2.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	11	kJ/m ²	
23°C	75	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	1.1	kJ/m ²	
23°C	2.2	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A
--	98.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze	11	%	ASTM D1003

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