

DuClear® CE 85 B

Polypropylene Random Copolymer

Ducor Petrochemicals BV

Message:

DuClear CE 85 B is a clarified polypropylene random copolymer (produced with a phthalate-free catalyst) for extrusion applications. The grade exhibits high transparency and contact clarity, very good gloss and surface finish. The main applications of DuClear CE 85 B are extrusion blow molding, sheet extrusion and thermoforming.

Applications

DuClear CE 85 B is suitable for: blow molded bottles for consumer goods (e.g. detergents, cosmetics), bottles for industrial use

General Information			
Features	Highlight		
	Definition, high		
	Random copolymer		
	Excellent appearance		
Uses	Bottle		
Agency Ratings	EC 1907/2006 (REACH)		
	EC 1935/2004		
	EN 71-3		
	EU 2000/53/EC		
	EU 2002/96/EC (WEEE)		
	EU 2005/84/EC		
	EU 94/62/EC		
	FDA 21 CFR 176.170(c), Table 1		
	FDA 21 CFR 176.170(c), table 2		
	FDA 21 CFR 177.1520(a) 3 (i)		
	FDA 21 CFR 177.1520(b)		
	FDA 21 CFR 177.1520(c) 3.1a		
	Europe 10/1/2011 12:00:00 AM		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Processing Method	Blow molding		
	Extrusion		
	Sheet extrusion molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	950	MPa	ISO 527-2/1
Tensile Stress (Yield)	26.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	12	%	ISO 527-2/50
Fracture	> 50	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	3.3	kJ/m ²	ISO 179/1eA
23°C	28	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/A
Melting Temperature (DSC)	145	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm)	10	%	ASTM D1003

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