

Ducor® 1100 S

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Ducor 1100S is a homopolymer, characterized by high flowability and medium molecular weight distribution, and is formulated with a general-purpose additive package. Ducor 1100S is used for general injection moulding applications.

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

Applications

Closures, furniture, housewares, general IM

General Information			
Additive	Unspecified additive		
Features	Homopolymer		
	High liquidity		
	Compliance of Food Exposure		
	General		
	Medium wide molecular weight distribution		
Uses	Furniture		
	Household goods		
	General		
	Shell		
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) 1 (i)		
	FDA 21 CFR 177.1520(b)		
	FDA 21 CFR 177.1520(c) 1.1a		
	Europe 10/1/2011 12:00:00 AM		
RoHS Compliance	RoHS compliance		
Processing Method	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)	25	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	78.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	ISO 527-2/50
Fracture	> 50	%	ISO 527-2/50
Shear Modulus	800	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.5	kJ/m ²	ISO 179/1eA
23°C	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	14	kJ/m ²	ISO 179/1eU
23°C	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	1.3	kJ/m ²	ISO 180/1A
23°C	3.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A
--	90.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (1000 µm, Injection Molded)	60	%	ASTM D1003

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