

Ducor® 2640 RC

Polypropylene Impact Copolymer

Ducor Petrochemicals BV

Message:

Ducor 2640RC is a controlled rheology, heterophasic high impact block copolymer. It shows an excellent fluidity combined with an advanced nucleation system, which results in fast cycle-times and high dimensional stability.

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

General Information			
Additive	Nucleating Agent		
Features	Block Copolymer		
	Controlled Rheology		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Flow		
	High Impact Resistance		
	Nucleated		
Uses	Household Goods		
	Pails		
	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) 3 (i)		
	FDA 21 CFR 177.1520(c) 3.1a		
RoHS Compliance	RoHS Compliant		
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
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	1060	MPa	ISO 527-2/1
Tensile Stress (Yield)	21.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	> 50	%	
Shear Modulus	700	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	
0°C	8.0	kJ/m ²	
23°C	17	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	160	kJ/m ²	
0°C	190	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-20°C	5.0	kJ/m ²	
0°C	8.0	kJ/m ²	
23°C	15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	145	°C	ISO 306/A
--	58.0	°C	ISO 306/B
Melting Temperature (DSC)	165	°C	ISO 3146

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