

DuPure® R 50

Polypropylene Homopolymer

Ducor Petrochemicals BV

Message:

Description

DuPure R 50 is a polypropylene homopolymer with a narrow/medium molecular weight distribution, and is formulated with a general purpose additivation package. The product shows a good flowability.

Applications

DuPure R 50 is suitable for: general purpose injection moulding, e.g. closures, furniture and houseware.

General Information			
Additive	Unspecified Additive		
Features	Food Contact Acceptable		
	General Purpose		
	Good Flow		
	Homopolymer		
	Narrow Molecular Weight Distribution		
Uses	Closures		
	Furniture		
	General Purpose		
	Household Goods		
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)		
RoHS Compliance	FDA 21 CFR 177.1520(c) 1.1a		
	RoHS Compliant		
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)	12	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	1550	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	
Break	> 50	%	
Tensile Creep Modulus ¹ (1000 hr)	380	MPa	ISO 899-1
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	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	14	kJ/m ²	
23°C	110	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	1.3	kJ/m ²	
23°C	3.0	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	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)	60	%	ASTM D1003
NOTE			
1.	elongation <0.5%		

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