

DuPure® SR 79

Polypropylene Impact Copolymer

Ducor Petrochemicals BV

Message:

Description
DuPure SR 79 is a heterophasic polypropylene copolymer, combining excellent stiffness with good impact strength. The product is formulated with an advanced nucleation system, resulting in fast injection moulding cycle-times and a high dimensional stability.

Applications
DuPure SR 79 is suitable for: housewares, cylindrical containers and crates, furniture.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Impact Resistance		
	High Stiffness		
	Impact Copolymer		
Uses	Nucleated		
	Containers		
	Crates		
	Furniture		
	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) 3 (i)		
RoHS Compliance	FDA 21 CFR 177.1520(c) 3.1a		
	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)	15	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method

Ball Indentation Hardness (H 358/30)	63.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	> 50	%	
Shear Modulus	740	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.0	kJ/m ²	
-20°C	2.5	kJ/m ²	
0°C	3.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	
-20°C	50	kJ/m ²	
0°C	100	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	2.0	kJ/m ²	
-20°C	2.5	kJ/m ²	
0°C	3.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A
--	70.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146

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