

DuPure® SH 50

Polypropylene Impact Copolymer

Ducor Petrochemicals BV

Message:

Description

DuPure SH 50 is a heterophasic polypropylene copolymer.

Applications

DuPure SH 50 is suitable for: crates, containers and closures.

General Information			
Features	Food Contact Acceptable		
	Impact Copolymer		
Uses	Closures		
	Containers		
	Crates		
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)	4.2	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	53.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	> 50	%	

Tensile Creep Modulus ¹ (1000 hr)	260	MPa	ISO 899-1
Shear Modulus	590	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.5	kJ/m ²	
-20°C	4.0	kJ/m ²	
0°C	5.5	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	70	kJ/m ²	
-20°C	80	kJ/m ²	
0°C	140	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	2.0	kJ/m ²	
-20°C	3.0	kJ/m ²	
0°C	4.0	kJ/m ²	
23°C	11	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A
--	71.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146
NOTE			

1. elongation <0.5%

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