

DuPure® TM 76

Polypropylene Impact Copolymer

Ducor Petrochemicals BV

Message:

Description
DuPure TM 76 is a heterophasic polypropylene copolymer. The product combines a good stiffness with excellent impact strength.

Applications
DuPure TM 76 is suitable for: crates and containers, luggage, housewares.

General Information			
Features	Food Contact Acceptable		
	Good Stiffness		
	High Impact Resistance		
	Impact Copolymer		
Uses	Containers		
	Crates		
	Household Goods		
	Luggage		
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)	7.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	46.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2/1
Tensile Stress (Yield)	21.0	MPa	ISO 527-2/50

Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	> 50	%	
Shear Modulus	550	MPa	ISO 6721-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
-20°C	7.0	kJ/m ²	
0°C	9.0	kJ/m ²	
23°C, Partial Break	45	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	170	kJ/m ²	
-20°C	No Break		
0°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	5.0	kJ/m ²	
-20°C	6.0	kJ/m ²	
0°C	8.0	kJ/m ²	
23°C, Partial Break	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	80.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	144	°C	ISO 306/A
--	58.0	°C	ISO 306/B
Melting Temperature (DSC)	163	°C	ISO 3146

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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