

Generic Biodeg Polymers

Biodegradable Polymers

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Biodeg Polymers
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.12 - 1.45	g/cm ³	ASTM D792
23°C	1.23 - 1.30	g/cm ³	ISO 1183
--	0.990 - 1.42	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.43 - 25	g/10 min	ASTM D1238
190°C/2.16 kg	2.4 - 15	g/10 min	ISO 1133
Molding Shrinkage - Flow (23°C)	0.024 - 1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	40 - 89		ASTM D2240
23°C	78 - 81		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	712 - 1300	MPa	ASTM D638
23°C	122 - 3460	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	9.68 - 39.1	MPa	ASTM D638
Yield, 23°C	9.00 - 50.8	MPa	ISO 527-2
Fracture, 23°C	7.28 - 35.3	MPa	ASTM D638
Fracture, 23°C	4.00 - 29.9	MPa	ISO 527-2
23°C	10.7 - 32.8	MPa	ASTM D638
Tensile Strain			
Yield, 23°C	0.70 - 8.2	%	ISO 527-2
Fracture, 23°C	1.2 - 110	%	ASTM D638
Fracture, 23°C	0.67 - 21	%	ISO 527-2
Flexural Modulus			
23°C	212 - 2480	MPa	ASTM D790
23°C	215 - 3560	MPa	ISO 178
Flexural Stress (23°C)	6.00 - 70.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method

Tear Strength (23°C)	56.5 - 131	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0 - 8.9	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	4.8 - 36	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	21 - 78	J/m	ASTM D256
23°C	9.5 - 35	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	42.6 - 118	°C	ASTM D648
0.45 MPa, not annealed	55.0 - 56.7	°C	ISO 75-2/B
1.8 MPa, not annealed	39.0 - 66.6	°C	ISO 75-2/A
Vicat Softening Temperature			
--	45.0 - 137	°C	ASTM D1525
--	98.2 - 135	°C	ISO 306
Melting Temperature			
--	86.0 - 153	°C	
--	89.0 - 215	°C	ASTM D3418
--	141 - 180	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	60.0 - 70.0	°C	
Drying Time	2.0 - 7.2	hr	
Suggested Max Moisture	0.20 - 2.5	%	
Rear Temperature	45.0 - 185	°C	
Middle Temperature	70.0 - 175	°C	
Front Temperature	115 - 190	°C	
Nozzle Temperature	130 - 203	°C	
Processing (Melt) Temp	162 - 195	°C	
Mold Temperature	12.5 - 45.8	°C	
Screw Speed	80 - 138	rpm	
Injection instructions			
This data represents typical values that have been calculated from all products classified as: Generic Biodeg PolymersThis information is provided for comparative purposes only.			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	119 - 185	°C	
Cylinder Zone 2 Temp.	144 - 180	°C	
Cylinder Zone 3 Temp.	154 - 185	°C	
Cylinder Zone 4 Temp.	145 - 195	°C	
Melt Temperature	162 - 195	°C	
Extrusion instructions			
This data represents typical values that have been calculated from all products classified as: Generic Biodeg PolymersThis information is provided for comparative purposes only.			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

