

Bio-Flex® S 5630

Biodegradable Polymers

FKuR Kunststoff GmbH

Message:

Bio-Flex® S 5630 is a Biodegradable Polymers (Biodeg Polymers) material. It is available in Europe for injection molding or thermoforming. Primary attribute of Bio-Flex® S 5630: Eco-Friendly/Green.

General Information			
Features	Biodegradable		
Processing Method	Injection Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Apparent Density	0.90	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10 to 12	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00 to 10.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2160	MPa	ISO 527-2
Tensile Stress			
Break	29.0	MPa	ISO 527-2
--	32.0	MPa	ISO 527
Tensile Strain (Break)	9.0	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	46.0	MPa	ISO 178
Flexural Strain at Break	No Break	%	ISO 178
Tensile Strain at Tensile Strength	6.00	vol%	ISO 527
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	51	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	68.0	°C	ISO 75-2/B
Vicat Softening Temperature	105	°C	ISO 306/A
Melting Temperature (DSC)	140 to 160	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.20	%	

Rear Temperature	130	°C
Middle Temperature	150	°C
Front Temperature	170	°C
Nozzle Temperature	180	°C
Mold Temperature	30.0 to 65.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	60.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Cylinder Zone 1 Temp.	150	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	180	°C
Cylinder Zone 4 Temp.	185	°C
Adapter Temperature	170	°C
Die Temperature	180	°C
Take-Off Roll	20.0 to 50.0	°C

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

