

Bio-Flex® S 9533

Biodegradable Polymers

FKuR Kunststoff GmbH

Message:

Bio-Flex® S 9533 Biodegradable compound for injection moulding.

General Information			
Features	Updatable resources		
	Biodegradable		
Forms	Particle		
Processing Method	Thermoforming		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	24 - 28	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4580	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	50.0	MPa	ISO 527-2
Fracture	30.0	MPa	ISO 527-2
Tensile Strain (Break)	8.0	%	ISO 527-2
Flexural Modulus	4700	MPa	ISO 178
Tensile Strain at Tensile Strength	4.0	%	ISO 527-2
Flexural Strain at Break	3	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	37	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	63.0	°C	ISO 306
Melting Temperature (DSC)	150 - 170	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	150	°C	
Middle Temperature	160	°C	
Front Temperature	175	°C	

Nozzle Temperature	180	°C
Mold Temperature	30.0 - 65.0	°C
Injection instructions		

Holding pressure level: 40 - 70%Melt cushion (of volume): 3 - 10%Cooling time: 15 secmax. Dwell time: 300 sec

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

