

Pebax® 4533 SA 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® 4533 SA 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is specially designed to food uses.

General Information			
Uses	Gears		
	Non-specific Food Applications		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 24 hr, 4.00 mm	1.1	%	
Flow : 24 hr, 4.00 mm	0.40	%	
Water Absorption			ISO 62
23°C, 24 hr	1.2	%	
Equilibrium, 23°C, 50% RH	0.40	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	92		
Shore A, 15 sec	90		
Shore D	46		
Shore D, 15 sec	41		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	42.0	MPa	ISO 527-2
Tensile Strain (Break)	> 550	%	ISO 527-2
Flexural Modulus	86.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	111	°C	ISO 306/A
Melting Temperature	147	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	200 to 270	°C	
Mold Temperature	10.0 to 30.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Drying Time	4.0 to 6.0	hr	
Melt Temperature	210 to 230	°C	
NOTE			
1.	40°C Mold		

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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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