

Pebax® 4033 SA 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax ® 4033 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	Plastics Modification		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	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	0.50	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	90		
Shore A, 15 sec	89		
Shore D	42		
Shore D, 15 sec	35		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	40.0	MPa	ISO 527-2
Tensile Strain (Break)	> 450	%	ISO 527-2
Flexural Modulus	77.0	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	131	°C	ISO 306
Melting Temperature	160	°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.	Mold at 40°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

