

Pebax® 2533 SA 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® 2533 SA 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is specially designed to food uses. Its chemical structure also enables the absorption and the controlled release of volatile molecules (fragrances, oils, insecticides...).

General Information			
Uses	Non-specific Food Applications		
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	0.80	%	
Flow : 24 hr, 4.00 mm	0.50	%	
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	77		
Shore A, 15 sec	74		
Shore D	27		
Shore D, 15 sec	22		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	32.0	MPa	ISO 527-2
Tensile Strain (Break)	> 750	%	ISO 527-2
Flexural Modulus	12.0	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	58.0	°C	ISO 306
Melting Temperature	134	°C	ISO 11357-3

Injection	Nominal Value	Unit
Drying Temperature	55.0 to 65.0	°C
Drying Time	4.0 to 8.0	hr
Processing (Melt) Temp	180 to 240	°C
Mold Temperature	10.0 to 30.0	°C
NOTE		
1.	Mold at 40°C	

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