

Pebax® 7033 SA 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® 7033 SA 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SA grade is suitable for food contact applications.

General Information			
Features	Food Contact Acceptable		
Uses	Footwear		
	Non-specific Food Applications		
	Tubing		
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	1.5	%	
Flow : 24 hr, 4.00 mm	1.2	%	
Water Absorption			ISO 62
23°C, 24 hr	1.1	%	
Equilibrium, 23°C, 50% RH	0.70	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	69		
Shore D, 15 sec	61		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	54.0	MPa	ISO 527-2
Tensile Strain (Break)	> 350	%	ISO 527-2
Flexural Modulus	390	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C, Complete Break	20	kJ/m ²	
23°C, Partial Break	120	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	164	°C	ISO 306
Melting Temperature	172	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	5.0 to 7.0	hr	
Processing (Melt) Temp	230 to 290	°C	
Mold Temperature	25.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	5.0 to 7.0	hr	
Melt Temperature	220 to 250	°C	
NOTE			

1. Mold at 40°C

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