

Pebax® 6333 SA 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® 5533 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This SP grade has been developed to be heat and UV resistant.

General Information			
Uses	Fibers		
	Footwear		
	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	1.4	%	
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	64		
Shore D, 15 sec	58		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	53.0	MPa	ISO 527-2
Tensile Strain (Break)	> 350	%	ISO 527-2
Flexural Modulus	285	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	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	157	°C	ISO 306

Melting Temperature	169	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	65.0 to 75.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	230 to 290	°C	
Mold Temperature	25.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	65.0 to 75.0	°C	
Drying Time	4.0 to 6.0	hr	
Melt Temperature	210 to 240	°C	
NOTE			
1.	Mold at 40°C		

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