

Pebax® 6333 SP 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® 6333 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			
Features	Good UV Resistance		
	High Heat Resistance		
Uses	Footwear		
	Sporting Goods		
Processing Method	Extrusion		
	Injection Molding		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
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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