

Pebax® 4533 SP 01

Polyether Block Amide

Arkema

Message:

Polyether block amide Pebax® 4533 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		
	Medium Heat Resistance		
Uses	Gears		
	Sporting Goods		
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	1.1	%	
Flow : 24 hr, 4.00 mm	0.40	%	
Water Absorption			ISO 62
23°C, 24 hr	1.2	%	
Equilibrium, 23°C, 50% RH	0.40	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	92		
Shore A, 15 sec	90		
Shore D	46		
Shore D, 15 sec	41		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	42.0	MPa	ISO 527-2
Tensile Strain (Break)	> 550	%	ISO 527-2
Flexural Modulus	86.0	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	111	°C	ISO 306/A
Melting Temperature	147	°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.	40°C Mold		

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