

Pebax® HD 5513 SP 01

Polyether Block Amide

Arkema

Message:

Polyether bloc amide Pebax® HD 5513 SP 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. Added to PA6, Pebax® HD 5513 SP 01 enhances the properties of PA6, especially at low temperatures and low humidity content, at the same time maintaining the transparency of the nylon film and improving its soft touch. This SP grade has been developed to be heat and UV resistant.

Note that this grade was formerly named Pebax® MP 1878 SP 01.

General Information			
Features	Good UV Resistance		
	High Heat Resistance		
	Low Temperature Resistant		
Uses	Plastics Modification		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	6.7	%	
Equilibrium, 23°C, 50% RH	1.3	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	58		
Shore D, 15 sec	54		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	> 500	%	ISO 527-2
Flexural Modulus	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	34	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179
-40°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	169	°C	ISO 306
Melting Temperature	195	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	5.0 to 7.0	hr	

Processing (Melt) Temp	220 to 260	°C
Mold Temperature	25.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	70.0 to 90.0	°C
Drying Time	5.0 to 7.0	hr
Melt Temperature	220 to 250	°C

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