

Pebax® 5533 SP 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			
Features	Good UV Resistance		
	High Heat Resistance		
Uses	Belts/Belt Repair		
	Footwear		
	Sporting Goods		
Appearance	Clear/Transparent		
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)		
	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	1.2	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	54		
Shore D, 15 sec	50		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	52.0	MPa	ISO 527-2
Tensile Strain (Break)	> 450	%	ISO 527-2
Flexural Modulus	170	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	142	°C	ISO 306
Melting Temperature	159	°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	200 to 270	°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 230	°C	
NOTE			
1.	Mold at 40°C		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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