

Pebax® 4033 SN 01

Polyether Block Amide

Arkema

Message:

Pebax® 4033 SN 01 is a Polyether Block Amide (PEBA-Ether) product. It can be processed by blow molding, calendering, casting, coating, extrusion, film extrusion, injection molding, profile extrusion, resin transfer molding, sheet extrusion, or thermoforming and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Good UV Resistance

Heat Resistant

Impact Resistant

General Information				
Features		Good Impact Resistance		
		Good UV Resistance		
		High Heat Resistance		
		Platable		
Appearance		Clear/Transparent		
Forms		Granules		
Processing Method		Blow Molding		
		Calendering		
		Casting		
		Coating		
		Extrusion		
		Film Extrusion		
		Injection Molding		
		Profile Extrusion		
		Resin Transfer Molding		
		Sheet Extrusion		
		Thermoforming		
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	Dry	Conditioned	Unit	Test Method
Density	1010	1010	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/1.0 kg)	9.00	--	cm ³ /10min	ISO 1133 ²

Water Absorption				ISO 62 ³
Saturation	1.2	--	%	
Equilibrium	0.50	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	73.0	64.0	MPa	ISO 527-2 ⁴
Tensile Stress (50% Strain)	8.00	8.00	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	--	No Break		
23°C	--	No Break		
Charpy impact strength				ISO 179/1eU ⁸
-30°C	--	No Break		
23°C	--	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	52.0	--	°C	ISO 75-2 ⁹
Melting Temperature ¹⁰	160	--	°C	ISO 11357-3 ¹¹
CLTE - Flow	2.0E-4	--	cm/cm/°C	ISO 11359-2 ¹²
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	3.0E+12	ohms	IEC 60093 ¹³
Volume resistivity	2.6E+11	--	ohms·m	IEC 60093 ¹⁴
Electric strength	39	--	kV/mm	IEC 60243-1 ¹⁵
Relative Permittivity				IEC 60250 ¹⁶
100 Hz	7.00	--		
1 MHz	5.00	--		
Dissipation Factor				IEC 60250 ¹⁷
100 Hz	0.071	--		
1 MHz	0.060	--		
Comparative tracking index	--	600		IEC 60112 ¹⁸
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm, UL)	HB	--		ISO 1210 ¹⁹
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
10.	10 °C/min
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
18.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
19.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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