Pebax® 5533 SN 70 NOIR

Polyether Block Amide

Arkema

Message:

Pebax® 5533 SN 70 NOIR is a Polyether Block Amide (PEBA-Ether) product filled with filler. 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:
Antistatic
Conductive
Good UV Resistance
Heat Resistant
Impact Resistant

General Information	
Filler / Reinforcement	Filler
Additive	Antistatic
Features	Antistatic Electrically Conductive Good Impact Resistance Good UV Resistance High Heat Resistance Platable
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	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1090	1090	kg/m³	ISO 1183 [1]

Melt volume-flow rate (250°C/5.0 kg)	5.00	--	cm^3/10min	ISO 1133 [2]
Water Absorption (Saturation)	1.2	--	%	ISO 62 [3]
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	305	298	MPa	ISO 527-2 [4]
Tensile Stress (Yield)	18.0	17.0	MPa	ISO 527-2 [5]
Tensile Strain (Yield)	31	36	%	ISO 527-2 [6]
Nominal strain at break	> 50	> 50	%	ISO 527-2 [7]
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA [8]
-30°C	18.0	--	kJ/m^2	
23°C	No Break	--		
Charpy impact strength				ISO 179/1eU [9]
-30°C	No Break	--		
23°C	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature [10]	159	--	°C	ISO 11357-3 [11]
CLTE - Flow	2.2E-4	--	cm/cm/°C	ISO 11359-2 [12]
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	5.5E+3	ohms	IEC 60093 [13]
Volume resistivity	1.1E+5	--	ohms·m	IEC 60093 [14]
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 [15]
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 [16]
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.			
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.

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