Pebax® 5533 SN 70 BLACK

TPA-CD... ARKEMA

Product Texts

Pebax® 5533 SN 70 BLACK resin is a thermoplastic elastomer made of flexible polyether and rigid polyamide.
This SN 70 grade is made conductive thanks to carbon black.

Main applications:

- Conductive injected parts
- Hose for fuel transportation

Packaging:
This grade is delivered dried in sealed packaging (20 kg bags) ready to be processed.

Shelf Life:
Two years from the delivery. For any use above this limit, please refer to our technical services.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**5 / ***	cm³/10min	ISO 1133
Temperature	**250 / ***	°C	-
Load	**5 / ***	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**305 / 298**	MPa	ISO 527
[C] Yield stress	**18 / 17**	MPa	ISO 527
[C] Yield strain	**31 / 36**	%	ISO 527
[C] Nominal strain at break	**>50 / >50**	%	ISO 527
[C] Charpy notched impact strength, -30°C	**- / 18**	kJ/m²	ISO 179/1eA
[C] Shore D hardness	**60 / ***	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**159 / ***	°C	ISO 11357-1/-3
[C] Coeff. of linear therm. expansion, parallel	**220 / ***	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-
[C] Burning Behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**3.2 / ***	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**110000 / -**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	*** / 5500**	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1.2 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**0.5 / ***	%	Sim. to ISO 62
[C] Density	**1090 / 1090**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**65 - 75**	°C	-
Pre-drying - Time	**4 - 6**	h	-

Melt temperature	**200 - 270**	°C	-
Mold temperature	**25 - 60**	°C	-

Characteristics

Processing
Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion, Transfer Molding, Casting, Thermoforming

Delivery form
Pellets, Black

Special Characteristics
Increased electrical conductivity, Anti-static, Platable, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

Processing conditions:
- Typical melt temperature (Min / Recommended / Max) : 200°C / 240°C / 270°C.
- Typical mold temperature : 25 – 60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 65-75°C.

Other extrusion

Processing conditions:
- Typical melt temperature (Min / Recommended / Max) : 210°C / 220°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 65-75°C.