

CARBONEXTTM 20



CarboNext 20 has been designed with engineered morphology having very high level of purity and is characterised with low surface area. This carbon black has been developed in line with PCBL's ongoing commitment of providing cutting edge solutions to our Partners.

CarboNext 20 provides high filler loading capability with ultra-high filler dispersion in rubber compounds, which benefits a high extrusion rate with minimised surface defect of the extrudates when compared with conventional N500, N600, N700 ASTM grade carbon blacks.

APPLICATIONS

- Automotive weather stripping, door seals and extruded profiles
- Extruded hoses and profiles
- Moulded rubber articles



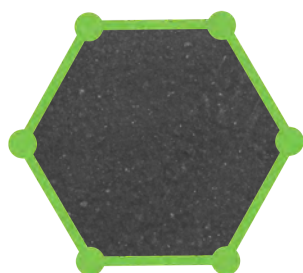
PERFORMANCE

CarboNext 20 grade carbon black is perfect selection for the extruded rubber products where superior filler dispersion, smooth surface appearance of the rubber products are the desired phenomena. It provides improved surface smoothness and filler dispersion in rubber compound in comparison with different ASTM soft grade carbon black with equivalent compound hardness.

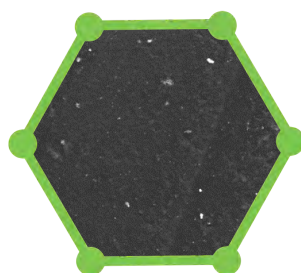
EPDM Rubber Compound Property (Rubber 100 phr, Oil 75 phr)

	CarboNext 20	N550	N660
Filler Loading (Phr)	150	120	130
Mooney Viscosity, ML (1+4) @ 100°C, (MU)	22.5	18.8	16.6
Hardness (Shore A)	72	70	71
Tensile Strength (MPa)	9.4	9.4	9.5
Elongation at Break (%)	191	247	245
100% Modulus (MPa)	5.7	4.1	4.0

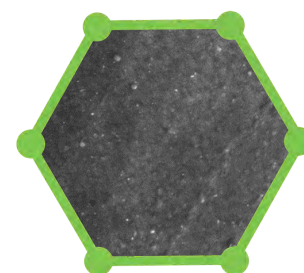
Surface phenomena of rubber extrudate is characterized by Scanning Electron Microscopy study of extrudate profiles. The SEM images suggest CarboNext 20 grade carbon black provides superior extrusion characteristics with improved surface smoothness behaviour.



CarboNext 20



N550



N660

PRODUCT SAFETY

Refer to SDS for handling purpose.

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