# Beetle® PPC120M 9250

## Polypropylene Copolymer

## Teknor Apex Company (Chem Polymer)

### Message:

PPC120M 9250 is a 20% mineral filled, stabilised polypropylene copolymer black compound intended for extrusion applications. It offers reasonable rigidity and high impact strength, combined with good service life durability over a wide temperature range.

General Information			
Additive	heat stabilizer		
	UV stabilizer		
Features	Impact resistance, high		
	Good UV resistance		
	Good liquidity		
	Excellent appearance		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16			
kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage <sup>1</sup>	0.80 - 1.6	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1250	MPa	ISO 527-2
Tensile Stress (Yield)	20.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	4.0	%	ISO 527-2
Fracture	> 200	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Flexural Stress	28.0	MPa	ISO 178
Bending strain-at peak stress	6.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	115	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Melting Temperature	169	°C	DSC
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm, Teknor Apex test result)	НВ		UL 94
Extrusion	Nominal Value	Unit	
Drying Temperature	< 60.0	°C	
Cylinder Zone 1 Temp.	190 - 220	°C	
Cylinder Zone 2 Temp.	190 - 220	°C	
Cylinder Zone 3 Temp.	190 - 220	°C	
Die Temperature	190 - 220	°C	
Extrusion instructions			

Maximum Melt temperature 230°CPP materials are not hygroscopic and drying should not normally be necessary. If surface moisture is present on the granules, drying is permissible but temperature should not exceed 60°C to avoid risk of agglomeration.

#### NOTE

Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).

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