



Technical data sheet

RavaCabl® PPc S-1

RavaCabl® PPc S-1 is a polypropylene thermoplastic compound designed for a telecom insulation application.

It presents excellent extrudability under thin wall thickness with good mechanical and thermal properties.

Technical properties:

Physical and Mechanical Properties	Typical Value	Units (SI)	Test Method
Density, 23°C	0,9	g/cm ³	ISO 1183-1 (ASTM D792)
Bulk Density	0,48	g/cm ³	ISO 60
Melt flow index (230°C /2,16kg)	7	g/10 min	ISO 1133 (b)
Hardness (15 seconds)	62	Shore D	ISO R 868 (ASTM D2240)
<i>Unaged mechanical properties (50 mm/min)</i>			
Tensile strength	>25	MPa	IEC 60811
Elongation at break	>450	%	
<i>Thermal ageing 7 days at 121°C</i>			
Tensile strength variation (Δ)	<30	%	UL 1581
Elongation at break variation (Δ)	<30	%	

Electrical Properties	Typical Value	Units (SI)	Test Method
Dielectric Constant (1 kHz)	2,24	-	ASTM D150
Insulation resistivity (1500 v – 60 s – 23°C – 50 % HR)	6,4 10 ¹⁶	Ω	ASTM D257

Recommended extrusion profile:

Extrusion Temperatures	Zones							
	Z1	Z2	Z3	Z4	Z5	Collar	Head	Die
Temperature (Imperial)	356°F	374°F	392°F	410°F	428°F	428°F	428°F	428°F
Temperature (SI)	180°C	190°C	200°C	210°C	220°C	220°C	220°C	220°C

RavaCabl® PPc S-1 is a product able to run on standard extruders, based on low compression screw and head. This compound is supplied in bags.. Pre-drying is not required before extrusion process.

RavaCabl® PPc S-1 is colorable. A full range of specific color masterbatches (RAVACOLOR™) and additive masterbatches (RAVABOOST™) are available.