



VIRA PPCC-411

PPCC-411 refers to Polypropylene with 50% carbonate calcium that is a widely used in various industries, such as home appliances, construction, automobiles, and industrial appliances. Due to its attractive properties, low cost, and ease of processing. In comparison with other polymers, it shows an increase in demand. Polymers are rarely used neatly and are usually filled with mineral fillers. Fillers are commonly used in the industry to extend thermoplastics and enhance their properties. Filling with rigid inorganic particles significantly improves the modulus of elasticity, hardness, tensile stress at break, and melt viscosity. The most widely used fillers in the industry include calcium carbonate, mica, and talc. In PP, calcium carbonate is one of the most commonly used ingredients due to its low cost and readily usable form.

Property	Typical Value	Test Method
Melt Flow Rate (230 °C/2,16 kg)	8.58 g/10min	ASTM D1238
Density	1.31 g/cm ³	ASTM D792
Tensile Strength at Yield(50mm/min)	20 MPa	ASTM D638
Tensile Elongation at Yield(50mm/min)	4.22 %	
Tensile Strength at Break(50mm/min)	16.43 MPa	
Tensile Elongation at Break(50mm/min)	24.68 %	
Flexural Module(13mm/min)	2460 MPa	ASTM D790
Flexural Strength (13mm/min at 5% elongation)	39.19 MPa	
Izod Impact Strength, notched	3.82 kJ/m ²	ASTM D256
ASH content	50%	ASTM D5630

Note: All data are average and are not defined as exact material properties.