

# Petrotene® PP A3 T35 PRTA011 PH355

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene with 35% mineral filler for injection molding, high density and good set of mechanical properties.

General Information			
Filler / Reinforcement	Mineral,35% Filler by Weight		
Features	High Density		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.16 to 2.20	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 to 1.1	%	ASTM D955
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	30.0	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	°C	ASTM D648
Continuous Use Temperature	90.0	°C	
Vicat Softening Temperature	150	°C	ASTM D1525 <sup>1</sup>
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	40	kV/mm	ASTM D149
Dissipation Factor (1 kHz)	2.0E-3		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	60.0 to 80.0	°C	
NOTE			
1.	Rate A (50°C/h), Loading 1 (10 N)		

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