

# Shuman PPO 211

Polyphenylene Ether + PS

Shuman Plastics, Inc.

## Message:

PPO FLAME RETARDANT, 211 BLACK, CUSTOM COLORS  
OFFERS THIS COMBINATION OF PROPERTIES:  
EXCELLENT FLAME RETARDANCY, EASY PROCESSABILITY, GOOD IMPACT STRENGTH, GOOD CHEMICAL RESISTANCE, SELF EXTINGUISHING, UL

General Information			
Features	Copolymer		
	Impact resistance, good		
	Workability, good		
	Good chemical resistance		
	Flame retardancy		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	1.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	46.9	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.6	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm, Tested by Shuman Plastics	V-0		UL 94
3.18 mm, Tested by Shuman Plastics	5VA		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 104	°C	

Drying Time	2.0 - 4.0	hr
Processing (Melt) Temp	221 - 260	°C
Injection instructions		
Tray Dryer Drying Temperature, No Standard, 1.5 in: 180 to 220°FTray Dryer Drying Time, No Standard, 1.5 in: 2 to 4hrs		
Extrusion	Nominal Value	Unit
Drying Temperature	82.2 - 104	°C
Drying Time	2.0 - 4.0	hr
Melt Temperature	193 - 221	°C
Extrusion instructions		
Tray Dryer Drying Temperature, No Standard, 1.5 in: 180 to 220°FTray Dryer Drying Time, No Standard, 1.5 in: 2 to 4hrs		

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