

**Cosmoplene® AW161**

PP

The Polyolefin Company (Singapore) Pte Ltd

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	9	g/10min	ASTM D 1238
Mold Shrinkage, MD	0.015	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.015	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength at Yield	28.5	MPa	ASTM D 638
Tensile Strength at Break	23.5	MPa	ASTM D 638
Elongation at Break	400	%	ASTM D 638
Flexural Modulus	1170	MPa	ASTM D 790
Rockwell Hardness	R 90	-	ASTM D 785
Izod Impact notched, 1/8 in	75	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	38	J/m	ASTM D 256
Temperature	-20	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
DTUL @ 66 psi	117	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	900	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Mold temperature	30	°C	-
Zone 1	190 - 230	°C	-
Injection pressure	6.9	MPa	-
Holding pressure	9.8	MPa	-

**Characteristics****Processing**

Injection Molding, Blow Molding

**Special Characteristics**

High impact or impact modified

**Features**

Copolymer, Impact Copolymer

**Certifications**

Food contact, Food approval FDA 21 CFR

**Applications**

Electrical and Electronical, Toys

**Regional Availability**

Asia Pacific