

## Polypropylene

# Aramco PP CP160NK

### Product Description

Aramco PP CP160NK block copolymer polypropylene resin and is typically used for industrial injection molding application. Molded parts made from this resin typically exhibits good impact, high stiffness and good heat stability.

This product is formulated with nucleating agent.

### Typical Applications

Tub of washing machine, electrical appliances.

This product is not intended for use in medical and pharmaceutical applications.

Physical Properties	Unit	Test Method	Value <sup>(1)</sup>
Melt Flow Index (230°C/2.16kg)	g/10min	ASTM D1238	16
Density	g/cm <sup>3</sup>	ASTM D792 Method A	0.9
<b>Mechanical Properties<sup>(2)</sup></b>			
Tensile Strength at Yield	MPa	ASTM D638	28
Tensile Strength at Break	MPa	ASTM D638	20
Tensile Elongation at Break	%	ASTM D638	220
Flexural Modulus	MPa	ASTM D790	1315
Izod Impact, Notched 23 °C	kJ/m <sup>2</sup>	ASTM D256	8
Izod Impact, Notched -20 °C	kJ/m <sup>2</sup>	ASTM D256	4.2
Hardness Rockwell	R scale	ASTM D785	92
<b>Thermal Properties<sup>(2)</sup></b>			
Heat Deflection Temperature 0.45 MPa	°C	ASTM D648	124
<b>Other Properties</b>			
Shrinkage MD/TD	%	TPC method	1.6 / 1.7
Flammability		UL94	HB

(1) Typical values only, not to be construed as specification limits

(2) Test specimen preparation method : Pursuant to ASTM D4101

**Processing conditions:** Recommended melt temperature : 190 – 230 °C

**Storage and handling:** Aramco PP CP160NK should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C

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