

# Polypropylene

## Aramco PP CP90NK

### Product Description

Aramco PP CP90NK is a 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

Crates, electrical appliances, thin wall applications and industrial applications.

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	9.0
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	15
Flexural Modulus	MPa	ASTM D790	1530
Izod Impact, Notched 23 °C	kJ/m <sup>2</sup>	ASTM D256	10
Izod Impact, Notched -20 °C	kJ/m <sup>2</sup>	ASTM D256	5
Hardness Rockwell	R scale	ASTM D785	96
<b>Thermal Properties<sup>(2)</sup></b>			
Vicat Softening Temperature @10N	°C	ASTM D1525	153
Heat Deflection Temperature 0.45 MPa	°C	ASTM D648	124
<b>Other Properties</b>			
Shrinkage MD/TD	%	SUMIKA	1.4 / 1.6
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 CP90NK should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperature below 50 °C

Saudi Aramco: Company General Use

*Disclaimer: This document provides preliminary data provided for information and planning purposes only and cannot be used for any commercial decisions or commitments. The information contained herein is subject to change.*