

## Polypropylene Aramco PP CP245NA

### Product Description

Aramco PP CP245NA is a block copolymer polypropylene resin and is typically used for industrial injection molding application. It has a medium melt flow and molded parts made from this resin typically exhibits good impact, high stiffness and good heat stability.

This product is formulated with anti-static agent and nucleating agent for enhanced stiffness.

### Typical Applications

Crates, pails, electrical and industrial applications.

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

|                                            | Unit              | Test Method        | Value <sup>(1)</sup> |
|--------------------------------------------|-------------------|--------------------|----------------------|
| <b>Physical Properties</b>                 |                   |                    |                      |
| Melt Flow Index<br>(190°C/2.16kg)          | g/10min           | ASTM D1238         | 24.5                 |
| Density                                    | g/cm <sup>3</sup> | ASTM D792 Method A | 0.9                  |
| <b>Mechanical Properties<sup>(2)</sup></b> |                   |                    |                      |
| Tensile Strength at<br>Yield               | MPa               | ASTM D638          | 26                   |
| Tensile Strength at<br>Break               | MPa               | ASTM D638          | 17                   |
| Flexural Modulus                           | MPa               | ASTM D790          | 1430                 |
| Izod Impact, Notched<br>23 °C              | kJ/m <sup>2</sup> | ASTM D256          | 9                    |
| Izod Impact, Notched -<br>20 °C            | kJ/m <sup>2</sup> | ASTM D256          | 6                    |
| Hardness Rockwell                          | ASTM D785         |                    | 91                   |
| <b>Thermal Properties<sup>(2)</sup></b>    |                   |                    |                      |
| Vicat Softening<br>Temperature @10N        | °C                | ASTM D1525         | 151                  |
| Heat Deflection<br>Temperature 0.45 MPa    | °C                | ASTM D648          | 124                  |
| <b>Other Properties</b>                    |                   |                    |                      |
| Shrinkage MD/TD                            | %                 | SUMIKA             | 1.4 / 1.7            |
| Flammability                               | UL94              | HB                 |                      |