

PP-C, or polypropylene copolymer, is a type of polypropylene that is composed of a combination of propylene monomers and a comonomer, typically ethylene. This copolymerization process results in a material with improved impact resistance and flexibility compared to homopolymer polypropylene (PP-H). PP-C exhibits good chemical resistance, low density, and excellent processability.

**Chemical Description**

Description	Value
Material Type	Semi-Crystalline Thermoplastic
Chemical Name	PP Polypropylene Copolymer
Additives	Unfilled
Color	Natural
UV Resistant	No

**Physical Properties**

Property	Maximum Unless Range is Specified
Density,lbs/in <sup>3</sup>	0.032
Water Absorption, 24 hrs, Immersion,% by wt.	0.01
Coefficient of Linear Thermal Expansion, x10 <sup>-5</sup> in./in./°F	6.6
Heat Deflection Temp,°F at 263psi	110
Max Continuous Operating Temp,°F	180
Minimum Operating Temp,°F	14
Dielectric Strength,V/mil	475
Dielectric Constant at 1 MHz	0.0017

**Mechanical Properties**

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	4.8
Compressive Strength,ksi	6
Flexural Strength,ksi	5.4
Flexural Modulus,ksi	160
Notched Izod Impact Strength,ft-lb/in	7.5

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.