

CS Hyde Company

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PRODUCT INFORMATION

39-__F
PP (Polypropylene)

Product Description:

Anti-stated, poly-propylene, random copolymer polyolefin engineering plastic providing excellent chemical resistance and high purity. FDA compliant with better mechanical properties than other typical polyolefin materials, it is light weight, weldable, and unaffected by moisture. Unique processing technology provides unsurpassed quality in PP stock shapes.

Common Applications:

Polypropylene has excellent chemical resistance and high purity characteristics make it ideal for use in the food-processing and chemical-processing industries. Common applications include pump and valve components, tanks, laboratory equipment, and other parts in contact with corrosive environments.

TYPICAL PROPERTIES

Mechanical Properties

Modulus of elasticity (tensile test)	@ 73 °F	105,000 psi	ASTM D 638
Tensile strength at break	@ 73 °F	3,900 psi	ASTM D 638
Elongation at break	@ 73 °F	500 %	ASTM D 638
Flexural strength	@ 73 °F	4,500 psi	ASTM D 790
Modulus of elasticity (flexural test)	@ 73 °F	165,000 psi	ASTM D 790
Notched impact strength (Izod)	@ 73 °F	2.1 ft-lbs/in	ASTM D 256
Rockwell hardness	M Scale, @ 73 °F	95	
Rockwell hardness	R Scale	102	ASTM D 785

Thermal Properties

			<u>Comment</u>
Melting temperature		297°F	1) (1) per ASTM D3418 (2) Resin data
Deflection temperature	@66 psi	165°F	2) ASTM D648

Other Properties

Moisture absorption	@ 24 hrs, 73 °F	0.06 %	ASTM D 570
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Resin specification:
ASTM D4101-10a PP0210
Shapes specification:
NONE

*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.