

8/25/2021



Exelene® PP

Product Data Sheet

Polypropylene
PP Random Copolymer
Injection Molding

R1005

Melt Flow Rate **11.0**

Density **0.900**

Applications

- Highly transparent containers for storing food
- Video and CD casings
- Transparent pitchers for water, juices and soft drinks
- Disposable syringes (body)

Characteristics

- The Exelene resin PP R1005 meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.
- The Exelene resin PP R3505 meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin

Properties	ASTM Testing	Units	Values
Resin Properties			
Melt Flow Rate	D 1238 (230°C; 2,16 kgf)	g/10 min	12.0
Density	D 792 (23°C)	g/cm³	0.900
Additives Package	Antioxidant, Antistatic Agent, Clarifying Agent		
Properties in standard test tubes by injection molding			
Tensile Strength @ yield	D 638 (50 mm/min, IV)	psi	4,800
Elongation @ yield	D 638 (50 mm/min, IV)	%	12
Flexural Modulus (1%)	D 790 I/B (13 mm/min; 3,2 mm)	psi	161,000
Notched Izod Impact	D 256A (muesca; 3,2 mm; 23°C)	ft x lb / in	1.30
Rockwell Hardness (R-Scale)	D 785 (23°C)	---	94
Deflection Temperature Under Load	D 648 (2°C/min; 66 psi)	°C	82

