



Exelene[®] PP

Product Data Sheet

Polypropylene
PP Random Copolymer
Injection Molding

R4505

Melt Flow Rate 45,0

Density 0,900

Applications

- High transparency and good impact resin
- Injection Molding: Housewares and thin wall applications in general
- General purpose resin for high clarity applications

Characteristics

- The Exelene resin PP R4505 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.

Properties	ASTM Testing	Units	Values
Resin Properties			
Melt Flow Rate	D 1238 (230°C; 2,16 kgf)	g/10 min	45.0
Density	D 792 (23°C)	g/cm ³	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	4,150
Elongation @ yield	D 638 (50 mm/min, IV)	%	13
Flexural Modulus (1%)	D 790 I/B (13 mm/min; 3,2 mm)	psi	160,000
Notched Izod Impact	D 256A (muesca; 3,2 mm; 23°C)	ft x lb / in	1.20
Rockwell Hardness (R-Scale)	D 785 (23°C)	----	90
Deflection Temperature Under Load	D 648 (2°C/min; 66 psi)	°C	95

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