

R08S-00 Polypropylene Random Copolymer

R08S-00 is a random copolymer polypropylene for film, blow molding, expanded PP foam beads, and injection molding applications needing slip properties. Benefits include superior slip properties and consistent processing. This resin meets the requirements of the U.S. Food and Drug administration as specified in 12 CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.899 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	8.0 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	3,800 psi	26.1 MPa	
@ Break	3,600 psi	24.8 MPa	
Elongation (2 in/min)			D638
@ Yield	13.0 %	13.0 %	
@ Break	>900 %	>900 %	
Flexural Modulus			D790A
1% Secant	122,800 psi	848 MPa	
Notched Izod Impact Strength			D256
@ 23 C	1.0 ft-lbf/in	5.3 kJ/m ²	
@ 4 C	0.5 ft-lbf/in	2.8 kJ/m ²	
Hardness			D785
Rockwell R	77	77	
Vicat Softening Point	269 F	132 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	174 F	79 C	
Haze, @ 23 C, 50-mil (1.3mm) plaque,			D1003
% Diffuse Transmittance	60%	60%	
Gloss at 60° angle	92	92	D2457

¹ Typical properties will vary and are not to be used for specifications.