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H13M-00 Polypropylene Homopolymer

H13M-00 is a medium-term heat aging polypropylene homopolymer designed for injection molding applications such as automotive parts, appliances and medical and rigid packaging. This grade benefits from a good retention of physical properties when exposed to higher in-service temperatures over an extended period of time, even following hot-water extraction. This material has been recognized by UL for sustained use at 100°C and meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	—	0.911 g/cc	**D792**
Melt Flow Rate 230°C/2.16 kg	—	13.5 g/10 min	**D1238**
Injection Molded Samples			
Tensile Strength (2 in/min)			**D638**
@ Yield	5,360 psi	37.0 MPa	
@ Break	2,475 psi	17.0 MPa	
Elongation (2 in/min)			**D638**
@ Yield	—	9.1 %	
@ Break	—	135 %	
Flexural Modulus			**D790A**
1% Secant	240,000 psi	1,655 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	0.6 ft-lb_f/in	3.1 kJ/m^2	
Hardness			**D785**
Rockwell R	—	105	
Deflection Temperature			**D648**
@ 66 psi (455 kPa)	221 F	105 C	
Haze @ 23°C, 50-mil (1.3mm) plaque			**D1003**
% Diffuse Transmittance	—	76 %	
Gloss at 60 ° angle	—	92	**D2457**
UL Recognition (6 mm thickness)			**UL94**
Relative Temperature Index	212 F	100 C	
Flammability Classification	—	HB	

[1] Typical properties; not to be used for specifications.

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