



Prime Engineering and Commodity Thermoplastic Resins

HD 5500.35 High Density Polyethylene

Description: HD 5500.35 is designed for general purpose blow molding applications and extrusion thermoforming applications.

Applications: Pharmaceutical packaging / Bleach and detergents / Industrial chemical containers

Features: Excellent stiffness
Excellent stress crack resistance
Exceptional processability
FDA 21 CFR 177.1520

Physical Properties	Typical Values	Test Method(s)
Density	0.955	D-1505
Melt Flow Rate – g/10 min (190°C/2.16kg)	0.35	D-1238
Tensile Strength at Yield - psi	4,000	D-638
Elongation at Yield - %	>600	D-638
Flexural Modulus – psi	200,000	D-790
ESCR – hrs		D-1693
Condition A, F ₅₀ (100% Igepal)	50	
Condition B, F ₅₀	35	
Brittleness Temperature - °F	<-180	D-746

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The nominal properties reported herein are laboratory tested and are typical data for these materials. Plastic Solutions, Inc. does not guarantee suitability of these materials for specific applications. Each user of material should make their own tests to determine suitability of a material in a design or application.

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