



Prime Engineering and Commodity Thermoplastic Resins

ABS 1045 General Purpose ABS

Description: ABS 1045 is a very easy flowing grade of ABS for injection molding with high resistance to impact and heat deflection.

Applications: Housing / toys / small appliances / consumer products

Features: High Impact
High Gloss

<u>Physical Properties</u>	<u>Typical Values</u>	<u>Test Method(s)</u>
Specific Gravity	1.04	D-792
Melt Flow Rate - g/10 min (230°C / 3.8kg)	11.0	D-1238
Mold Shrinkage	0.0055	D-955
Tensile Modulus – psi	363,000	D-638
Tensile Strength at Yield – psi	6,520	D-638
Elongation at Yield - %	2.4	D-638
Flexural Modulus – psi	341,000	D-790
Flexural Strength – psi	9,430	D-790
HDTUL Unannealed - 264 psi	167° F	D-648
Izod Impact Strength – ft-lbs/in	4.5	D-256
Rockwell Hardness – R Scale	102	D-785

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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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