



**Material:** **API II 505HF**

**Product Description:** API II 505HF is an intermediate grade of impact modified polystyrene. This material has exceptional gloss, moldability and colorability.

**Application:** API II 505HF is widely used in housewares, shelving, containers, displays and a wide range of injection molded applications. Complies with FDA regulation 21 CFR 177.1640.

Property	Data	Unit	Test Method
<b>Mechanical</b>			
Tensile Strength at Failure	3,200	psi	ASTM D 638
Tensile Modulus	290,000	psi	ASTM D 638
Flexural Modulus	280,000	psi	ASTM D 790
Elongation at Failure	45.0	%	ASTM D 638
Rockwell Hardness	59	L Scale	ASTM D 785
<b>Impact</b>			
Izod Impact Strength	1.6 *	ft.lbs./inch	ASTM D 256
<b>Thermal</b>			
Vicat Softening Point	201	deg. F	ASTM D 1525
Deflection Temperature (annealed) @ 264 psi	177	deg. F	ASTM D 648
<b>Physical</b>			
Melt Flow (Condition G)	14.0	gr./ 10 min.	ASTM D 1238
Specific Gravity	1.04	gr./ cc	ASTM D 892

\* Test results obtained using 1/8 inch notched injection molded specimen

The test results and property values listed have been obtained using laboratory controlled test methods. These values are intended to be a guide only. They are offered without guarantee since conditions under which our product is used are beyond our control. API II, therefore, disclaims any liability for loss or damage incurred in connection with this products use. Rev 05/08

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