



**Material:** **API II 545**

**Product Description:** API II 545 is a high impact, high heat resistant grade of impact modified polystyrene. This material features higher temperature usage, fast set-up times and dimensional stability.

**Application:** API II 545 is suggested for heavy molded parts with large cross section requiring high impact resistance. It is an excellent profile and sheet extrusion product balancing toughness and stiffness. Complies with FDA regulation 21 CFR 177.1640.

Property	Data	Unit	Test Method
<b>Mechanical</b>			
Tensile Strength at Failure	4,000	psi	ASTM D 638
Tensile Modulus	280,000	psi	ASTM D 638
Flexural Modulus	305,000	psi	ASTM D 790
Elongation at Failure	50.0	%	ASTM D 638
Rockwell Hardness	47	L Scale	ASTM D 785
<b>Impact</b>			
Izod Impact Strength	2.1 *	ft.lbs./inch	ASTM D 256
<b>Thermal</b>			
Vicat Softening Point	214	deg. F	ASTM D 1525
Deflection Temperature (annealed) @ 264 psi	194	deg. F	ASTM D 648
<b>Physical</b>			
Melt Flow (Condition G)	4.5	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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