



Material: **API II 645**

Product Description: API II 645 is high impact polystyrene used in applications requiring a superior level of toughness along with good tensile and flexural properties. Products can be produced using injection molding or extrusion process.

Application: Molded into a wide variety of injected molded parts where high productivity is needed. Used in extruding sheet stock, housings, profiles and tubing.

Property	Data	Unit	Test Method
Mechanical			
Tensile Strength at Yield	3,800	psi	ASTM D 638
Flexural Strength at Yield	5,800	psi	ASTM D 790
Flexural Modulus	315,000	psi	ASTM D 790
Elongation at Failure	47.0	%	ASTM D 638
Rockwell Hardness	40	M Scale	ASTM D 785
Impact			
Izod Impact Strength	3.0 *	ft.lbs./inch	ASTM D 256
Thermal			
Vicat Softening Point	201	deg. F	ASTM D 1525
Deflection Temperature (annealed) @ 264 psi	181	deg. F	ASTM D 648
Physical			
Melt Flow (Condition G)	3.0	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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