

API II 645

High Impact Polystyrene

API II, Inc.

Message:

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.

General Information	
Features	High Toughness
	Impact resistance, high
	Good flexibility
Uses	Pipe fittings
	Sheet
	Shell
	Profile
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D892
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	40		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.2	MPa	ASTM D638
Tensile Elongation (Break)	47	%	ASTM D638
Flexural Modulus	2170	MPa	ASTM D790
Flexural Strength (Yield)	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	82.8	°C	ASTM D648
Vicat Softening Temperature	93.9	°C	ASTM D1525

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

