

API II 545

High Impact Polystyrene

API II, Inc.

Message:

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.

General Information	
Additive	Impact modifier
Features	Good dimensional stability
	Impact resistance, high
	Heat resistance, high
Uses	Thick wall fittings (parts)
	Sheet
	Profile
Agency Ratings	FDA 21 CFR 177.1640
Forms	Particle
Processing Method	Sheet extrusion molding
	Profile extrusion 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)	4.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	47		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength (Break)	27.6	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525

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