

# API II 505

Medium Impact Polystyrene

API II, Inc.

## Message:

Product Description:

API II 505 is an intermediate grade of impact modified polystyrene. This material has improved gloss, rigidity and color ability.

Application:

API II 505 is widely used in house wares, toys, containers, POP displays and a wide range of injection molded applications. Complies with FDA regulation 21 CFR 177.1640.

General Information			
Additive	Impact modifier		
Features	Good Gloss		
	Good Rigidity		
	Impact modification		
	Good coloring		
Uses	Displays		
	Household goods		
	Container		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D892
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	48		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1790	MPa	ASTM D638
Tensile Strength (Break)	28.3	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	93.9	°C	ASTM D1525

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