

Diamond POLYSTYRENE PS 3010-01 NATURAL

LyondellBasell Industries - High Impact Polystyrene

General Information

Product Description

PS 3010-01 is a high impact grade of polystyrene characterized by good impact and processability. PS 3010 is widely used in the manufacture of housewares, toys, containers, appliance parts, speaker housings, and various types of extrusions.

General

Features	<ul style="list-style-type: none"> • Good Impact Resistance • Good Processability
Uses	<ul style="list-style-type: none"> • Appliance Components • Household Goods • Containers • Housings • Toys
Processing Method	<ul style="list-style-type: none"> • Extrusion • Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	231000	psi	ASTM D638
Tensile Strength (Break)	3900	psi	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	280000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.1	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	47		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Annealed)	178	°F	ASTM D648
Vicat Softening Temperature	185	°F	ASTM D1525