

Technical Data Sheet

Diamond POLYSTYRENE PS 3010-01 NATURAL

Polystyrene, High Impact

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.

Processing Method	Extrusion; Injection Molding
Attribute	Good Impact Resistance; Good Processability
Application	Appliance Components; Containers; Household Goods; Housings; Toys

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (200 °C/5.0 kg)	3.0	g/10 min	ASTM D1238
Density - Specific Gravity, (No Standard)	1.04	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Break	26.9	MPa	ASTM D638
Flexural Modulus	1930	MPa	ASTM D790
Tensile Elongation at Break	45	%	ASTM D638
Tensile Modulus	1590	MPa	ASTM D638
Impact			
Notched Izod Impact	110	J/m	ASTM D256
Hardness			
Rockwell Hardness, (L-Scale)	47		ASTM D785
Thermal			
Vicat Softening Temperature	85	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi)	81.1	°C	ASTM D648