

SABIC® HP7023

HP7023 is a Low Density Polyethylene grade that offers a unique combination of consistent processability, flexibility and toughness. Articles manufactured from HP7023 exhibits excellent impact strength, low shrinkage and good gloss.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D1505
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 190 °C	7.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	43	43	ASTM D2240
Tensile Strength at Break	10.5 MPa	1520 psi	Based on molded specimens.; ASTM D638
Tensile Strength, Yield	9.00 MPa	1310 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
1% Secant Modulus	180 MPa	26100 psi	ASTM D638
Izod Impact, Unnotched	4.90 J/cm	9.18 ft-lb/in	ASTM D256
Thermal Properties	Metric	English	Comments
Vicat Softening Point	89.0 °C	192 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746
Optical Properties	Metric	English	Comments
Gloss	45 %	45 %	45°; ASTM D2457