

Technical Data Sheet

Product Name: ABS 10720

Manufacturer: Ghaed Basir Petrochemical Co.

Grade: 10720

Type: Acrylonitrile Butadiene Styrene (ABS) – Injection Molding

General Properties

Property	Typical Value	Unit	Test Method
Appearance	Natural (Ivory)	—	Visual
Melt Flow Index (220°C/10kg)	32	g/10 min	ASTM D1238
Density	1.04	g/cm ³	ASTM D792
Shrinkage	0.4 – 0.7	%	—

Mechanical Properties

Property	Typical Value	Unit	Test Method
Tensile Strength at Yield	42 – 45	MPa	ASTM D638
Elongation at Break	> 20	%	ASTM D638
Flexural Strength	65 – 75	MPa	ASTM D790
Flexural Modulus	2000 – 2200	MPa	ASTM D790
Izod Impact Strength (Notched)	21	kJ/m ²	ASTM D256
Rockwell Hardness (R-scale)	105	—	ASTM D785

Thermal Properties

Property	Typical Value	Unit	Test Method
Vicat Softening Temperature	95 – 102	°C	ASTM D1525
Heat Deflection Temperature (1.8 MPa)	85 – 95	°C	ASTM D648