

TECHNICAL DATA SHEET

B6401

B6401 is a HDPE Blow Molding Grade produced by the Mitsui CX Process

B6401 combines exceptional processability with high rigidity, excellent mechanical properties and impact resistance

B6401 is recommended for upto 20 L containers for Lubricants and Edible oils

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238	g/10 min	0.40
Density (23°C)	ASTM D1505	g/cm ³	0.964
Physical Property			
Tensile Strength at Yield	ASTM D638 (50 mm/min)	MPa	32
Tensile Strength at Break		MPa	40
Elongation at Break		%	> 850
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	300
Flexural Modulus	ASTM D790A	MPa	1350
Hardness	ASTM D2240	Shore D	68
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D1693B	Hr	< 20
Vicat Softening Point (10 N)	ASTM D1525	°C	129
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	80
DSC Melting Temperature	ASTM D3418	°C	132
Suggested Processing Conditions			
Barrel Temperature		°C	150/160/165/175
Die Temperature		°C	180 – 185
Parison Temperature		°C	185 – 190
Cooling Water for Mold		°C	20 – 25

* Halene H is the registered trademark of High Density Polyethylene of HPL

Mechanical Properties are on specimens from Compression Molded sheets

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