

TECHNICAL DATASHEET

HDPE QB5505

PRODUCT DESCRIPTION

QB5505 is a high-density polyethylene resin that exhibits excellent processability, outstanding environmental stress crack resistance and stiffness. Typical applications include drums and other large part blow moulding applications.

APPLICATION:

Drums; Industrial Packaging

PROCESSING METHOD:

Extrusion Blow Moulding

TYPICAL PROPERTIES	ENGLISH		SI		TEST METHOD
	UNIT	VALUE	UNIT	VALUE	
Physical					
Melt Flow Rate, (190 °C/21.6 kg)	g/10 min	5.5	g/10 min	5.5	ASTM D1238
Density, (23 °C)	g/cm ³	0.954	g/cm ³	0.954	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	psi	194000	MPa	1340	ASTM D790
Tensile Strength at Yield	psi	4100	MPa	28	ASTM D638
Environmental Stress Crack Resistance, F ₅₀ (100% Igepal®, Cond B)	hr	>1000	hr	>1000	ASTM D1693
FNCT, (4.0 MPa, 2% Arkopal N100, 80 °C)	hr	25	hr	25	ISO 16770
Impact					
Tensile Impact Strength	ft-lb/in ²	560	kJ/m ²	1180	ASTM D1822
Hardness					
Shore Hardness, (Shore D)		69		69	ASTM D2240
Thermal					
Vicat Softening Temperature	°F	264	°C	129	ASTM D1525
Low Temperature Brittleness, F ₅₀	°F	<-105	°C	<-76	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	°F	150	°C	66	ASTM D648

Notes: These are typical property values not to be construed as specification limits.

PROCESSING TECHNIQUES:

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

HDPE

HIGH DENSITY
POLYETHYLENE
QB5505