

SABIC[®] CC254

SABIC HDPE CC254 is state of the art resin produced by ACP technology. It is easy to process on injection molding and compression molding machines. The grade offers good balance of stiffness, toughness and environmental stress cracking resistance properties.

Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	10 hour	10 hour	ISO 16770
Melt Flow	2.1 g/10 min @Load 2.16 kg, Temperature 190 °C	2.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	6.3 g/10 min @Load 5.00 kg, Temperature 190 °C	6.3 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	Based on compression molded specimens.; ASTM D2240
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D638
Elongation at Yield	10 %	10 %	ISO 527-1/-2
Tensile Modulus	1.15 GPa	167 ksi	ASTM D638
Charpy Impact, Notched	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 °C	167 °F	B/50; ISO 306

Descriptive Properties		
Sensoric (Organoleptic Properties)	Approved	SABIC method