

SABIC CYCOLAC™ EX39

Highest impact extrusion ABS for sheet and blow molding applications.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Viscosity	1.52e+6 cP @Shear Rate 100 1/s, Temperature 240 °C	1.52e+6 cP @Shear Rate 100 1/s, Temperature 464 °F	melt; ASTM D3825
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	SABIC method
Melt Flow	4.0 g/10 min @Load 10.0 kg, Temperature 220 °C	4.0 g/10 min @Load 22.0 lb, Temperature 428 °F	cm ³ /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	35.0 MPa	5080 psi	5 mm/min; ASTM D638
Elongation at Break	108 %	108 %	5 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	5 mm/min; ASTM D638
Tensile Modulus	1.68 GPa	244 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	57.0 MPa	8270 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.64 J/cm	8.69 ft-lb/in	ASTM D256
	3.20 J/cm @Temperature -30.0 °C	5.99 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	39.0 J	28.8 ft-lb	ASTM D3763