

PRIMARY MFG

FLEX-BLK 20 DLS

Fatigue and impact resistance similar to injection-molded polypropylene.



Tensile Properties, ASTM D638

	Metric	U.S.
Tensile Modulus	840 MPa	122 KSI
Ultimate Tensile Strength	36 MPa	5220 PSI
Tensile Strength at Yield	24 MPa	3480 PSI
Elongation at Break		86%
Elongation at Yield		7.5%

Flexural Properties, ASTM D790

Flexural Modulus	680 MPa	99 KSI
Flexural Strength	22 MPa	3190 PSI

Impact Properties

Notched Izod, ASTM D256	91 J/m	1.7 Ft-lbs/in
Unnotched Izod, ASTM D4812	Did not break	

Thermal Properties

Heat Deflection, ASTM D648	41°C @0.45 MPa	106°F @66PSI
	<25°C @1.82 MPa	<77°F @264 PSI
Coefficient of Thermal Expansion, ASTM E831	(<T _g) 69 PPM/°C	(<T _g) 38 PPM/°F
	(>T _g) 188 PPM/°C	(>T _g) 104 PPM/°F
Glass Transition, ASTM E1640	11°C	52°F

General Properties

Density, ASTM D792	1.18 g/cm ³	0.043 lb/in ³
Hardness, ASTM D2240	68, Shore D	
Water absorption, 23°C, 24 hours, ASTM D570	0.64%	