

PRIMARY MFG

TOUGH-GRY 10 DLS

One of the fastest-building materials available.



Tensile Properties, ASTM D638	Metric	U.S.
Tensile Modulus	2180 MPa	317 KSI
Ultimate Tensile Strength	50 MPa	7190 PSI
Elongation at Break	25%	
Elongation at Yield	4%	
Flexural Properties, ASTM D790		
Flexural Modulus	2070 MPa	300 KSI
Flexural Strength	75 MPa	10900 PSI
Impact Properties		
Notched Izod, ASTM D256	29 J/m	0.54 Ft-lbs/in
Unnotched Izod, ASTM D4812	598 J/m	11.2 Ft-lbs/in
Thermal Properties		
Heat Deflection, ASTM D648	59°C @0.45 MPa	138°F @66PSI
	51°C @1.82 MPa	123°F @264 PSI
Coefficient of Thermal Expansion, ASTM E831	(<Tg) 93 PPM/°C	(<Tg) 52 PPM/°F
	(>Tg) 165 PPM/°C	(>Tg) 92 PPM/°F
Glass Transition, ASTM E"	58°C	136°F
General Properties		
Density, ASTM D792	1.11 g/cm ³	0.040 lb/in ³
Hardness, ASTM D2240	81, Shore D	
Water absorption, 23°C, 24 hours, ASTM D570	0.34%	