Technical Data Sheet

Diamond ABS831G10D1A13270

Acrylonitrile Butadiene Styrene

Product Description

Diamond ABS831G10D1A13270 is a Acrylonitrile Butadiene Styrene Glass Fiber, 10% filled material.

Forms	Pellets
Filler/Reinforcement	Glass Fiber, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (200 °C/5.0 kg)	1.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.18	g/cm³	ASTM D792
Mechanical			
Tensile Elongation at Yield	3	%	ASTM D638
Tensile Strength at Yield	56	MPa	ASTM D638
Tensile Strength at Break	56	MPa	ASTM D638
Flexural Modulus	3700	MPa	ASTM D790
Tensile Elongation at Break	5	%	ASTM D638
Tensile Modulus	3000	MPa	ASTM D638
Flexural Strength	75	MPa	ASTM D790
Impact			
Notched Izod Impact	91	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	105		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	88	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	98	°C	ASTM D648