

Technical Data Sheet

Diamond ABS801LA12538

Acrylonitrile Butadiene Styrene

Product Description

Diamond ABS801LA12538 is a Acrylonitrile Butadiene Styrene material. Features include: Medium Impact Resistance.

Attribute	Medium Impact Resistance
Forms	Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (200 °C/5.0 kg)	2.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.04	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield	3	%	ASTM D638
Tensile Strength at Yield	37	MPa	ASTM D638
Tensile Strength at Break	35	MPa	ASTM D638
Flexural Modulus	2600	MPa	ASTM D790
Tensile Elongation at Break	14	%	ASTM D638
Tensile Modulus	1900	MPa	ASTM D638
Flexural Strength	63	MPa	ASTM D790
Impact			
Notched Izod Impact	260	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	102		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	73	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	84	°C	ASTM D648