

Technical Data Sheet
Diamond ABS 2510 AS/P
Acrylonitrile Butadiene Styrene
Engineering Plastics



General			
Additive	• Antistatic		
Features	• Antistatic		
Agency Ratings	• EC 1907/2006 (REACH)	• EU 2002/96/EC (WEEE)	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.6 g/10 min	4.6 g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	6800 psi	46.9 MPa	ASTM D638
Flexural Modulus ²	310000 psi	2140 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 in (3.18 mm))	2.5 ft·lb/in	130 J/m	ASTM D256A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	110	110	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	172 °F	77.8 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	201 °F	93.9 °C	
Vicat Softening Temperature	219 °F	104 °C	ASTM D1525
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+10 ohms	1.0E+10 ohms	ASTM D257
Volume Resistivity	1.0E+10 ohms·cm	1.0E+10 ohms·cm	ASTM D257

Notes

¹ 2.0 in/min (51 mm/min)

² 0.050 in/min (1.3 mm/min)

Notes

These are typical property values not to be construed as specification limits.

