

## Technical Data Sheet

### *Diamond* ABS TR5000BUE



Acrylonitrile Butadiene Styrene

#### Product Description

*Diamond* ABS TR5000BUE is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications.

<b>Processing Method</b>	Injection Molding
<b>Forms</b>	Pellets
<b>Appearance</b>	Clear/Transparent

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (200 °C/5.0 kg, Procedure A)	2.1	g/10 min	ASTM D1238
Density - Specific Gravity	1.1	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield, (51 mm/min)	48.8	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Procedure B, Method I (3 point load))	2300	MPa	ASTM D790
<b>Impact</b>			
Notched Izod Impact, (3.18 mm, Method A)	110	J/m	ASTM D256
<b>Hardness</b>			
Rockwell Hardness, (R-Scale)	112		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	72.8	°C	ASTM D648
<b>Optical</b>			
Haze, (3000 μm)	3.50	%	ASTM D1003
Light Transmittance, (3000 μm)	90.0	%	ASTM D1003
<b>UL Information</b>			
Flame Rating	HB		UL 94
UL File Number, (USA)	E150937		

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80 to 85	°C
Suggested Max Moisture	0.1	%
Front Temperature	190 to 250	°C
Middle Temperature	190 to 250	°C
Rear Temperature	190 to 250	°C
Injection Rate	Moderate-Fast	
Mold Temperature	40 to 80	°C