

## Technical Data Sheet

### Diamond ABS 7501 1002 YI UVNAT



Acrylonitrile Butadiene Styrene

#### Product Description

Diamond ABS 7501 1002 YI UVNAT is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications. Features include: Ultra High Impact Resistance.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Ultra High Impact Resistance
<b>Forms</b>	Pellets

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/3.8 kg, Procedure A)	3.6	g/10 min	ASTM D1238
Density - Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield, (51 mm/min)	42.7	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	1970	MPa	ASTM D790
<b>Impact</b>			
Notched Izod Impact, (23 °C, 3.18 mm)	400	J/m	ASTM D256
<b>Hardness</b>			
Rockwell Hardness, (R-Scale)	101		ASTM D785
<b>Thermal</b>			
Vicat Softening Temperature, (Loading 1 (10 N))	103	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi), (3.18 mm)	92.8	°C	ASTM D648
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	77.2	°C	ASTM D648
<b>UL Information</b>			
Flame Rating, (1.5 mm)	HB		UL 94
UL File Number	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