

# Novodur 433

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Novodur 433 is the next generation mass/emulsion ABS. It provides a superior mix of high gloss and impact compared to standard ABS. It combines excellent toughness and stiffness for the most challenging injection molded applications.

### FEATURES

- High gloss surface finishes
- Broad processing window
- Excellent balance of impact and stiffness

### APPLICATIONS

- Toys
- Small appliances
- Consumer durables

Property, Test Condition	Standard	Unit	Values
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	7
Izod Notched Impact Strength, -30 °C (-22 °F)	ASTM D 256	ft-lb/in	2
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	6300
Tensile Stress at Break, 23 °C	ASTM D 638	psi	4900
Tensile Strain at Break, 23 °C	ASTM D 638	%	35
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	340
<b>Thermal Properties</b>			
DTUL @ 264 psi - Annealed	ASTM D 648	°F	207
DTUL @ 66 psi - Annealed	ASTM D 648	°F	212
<b>Optical Properties</b>			
Specular Gloss, 60 °	ASTM D 523		97
Specular Gloss, 20 °	ASTM D 523		88
<b>Other Properties</b>			
Density	ASTM D 792	lb/in <sup>3</sup>	1.06
<b>Processing</b>			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006

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Property, Test Condition	Standard	Unit	Values
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4