

Novodur® 450

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur 450 is an injection molding grade of ABS with medium impact and high gloss.

General Information			
UL YellowCard	E256400-520823		
Features	Good Flow		
	High Gloss		
	Medium Impact Resistance		
Uses	Appliances		
	Electrical/Electronic Applications		
	Sporting Goods		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	27.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	48.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	34	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	71.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	17.0	kJ/m ²	ASTM D256
Notched Izod Impact Strength			ISO 180/A
-30°C	7.0	kJ/m ²	
-20°C	13	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	96.0	°C	ISO 75-2/B
1.8 MPa, Annealed	92.0	°C	ISO 75-2/A
Vicat Softening Temperature	99.0	°C	ASTM D1525 ¹
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	90		ASTM D523

NOTE

1. Rate B (120°C/h), Loading 2 (50 N)

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