

Dayson Polymers, LLC
ABS PORENE® AN450 Property Data Sheet
Acrylonitrile Butadiene Styrene
Flame Retardant Grade

Property	Test Condition	Nominal Values (English)	Test Method
Physical			
Melt Flow Rate	200°C/5.0 kg – G	6.5 g/10 min	ASTM D1238
Mold Shrink, Linear-Flow		0.0040 to 0.0060 in/in	ASTM D955
Mechanical			
Tensile Strength	73°F	6,120 psi	ASTM D638
Flexural Modulus	73°F	312,914 psi	ASTM D790
Flexural Strength	73°F	9,250 psi	ASTM D790
Impact			
Notched Izod Impact	73°F, 0.250 in	2.39 ft-lb/in	ASTM D256
Hardness			
Rockwell Hardness	R-Scale, 0.250 in	105	ASTM D785
Thermal			
DTUL @ 264 psi - Unannealed	0.250 in	167 °F	ASTM D648
DTUL @ 66 psi - Unannealed	0.250 in	183 °F	ASTM D648
Ignition Characteristics			
Flame Rating – UL (0.0630in)		V-0	UL-94
PROCESSING INFORMATION			
Injection Molding Parameters		Nominal Values (English)	
Drying Temperature		194 to 212 °F	
Drying Time		2.0 to 3.0 hr	
Processing (Melt) Temp		320 to 356 °F	
Mold Temperature		104 to 176 °F	

**APPLICATION: INJECTION MOLDING
APPLIANCES, COMPUTER COMPONENTS, ELECTRICAL/ELECTRONIC APPLICATIONS,
HOUSING, ELECTRICAL
TOYS, AUTOMOTIVE APPLICATIONS**

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