

**Properties**

**AF800R**

Flame-retardant ABS resin

\*The product(s) do not contain halogenated compounds as flame retardants and do not contain antimony compounds.

Standard

Properties	Test methods	Test conditions	Units	
Melt mass-flow rate	ISO 1133	200 deg C/5kg	g/10min	7
Mold shrinkage	Daicel method	-	%	0.4-0.6
Tensile strength	ISO 527	-	MPa	50
Flexural strength	ISO 178	-	MPa	74
Flexural modulus	ISO 178	-	MPa	2700
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m2	10
Deflection temperature under load	ISO 75	1.80MPa	deg C	70
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	9
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	-
Flammability	UL94	-	-	V-2/0.75-2.8mm
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm3	1.08

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.
- UL recognition File No. is E47773.
- The colorant formulations are restricted for each UL certified color. Please contact us for more information.

**Typical settings for processing**

Preliminary drying	Barrel temperature(deg C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (deg C)
	Nozzle	Front	Middle	Back			
3-5hrs 80deg C	220-240	220-240	200-220	180-200	40-60	5-15	40-50