

CYCOLAC™ FR15U resin

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

CYCOLAC FR15U is a flame retardant ABS with good processability and good indoor UV properties.

General Information			
Features	Workability, good		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/5.0 kg)	7.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	40.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.40 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	1.0	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ISO 527-2/1
Tensile Stress (Yield)	41.0	MPa	ISO 527-2/50
Tensile Strain (Break)	22	%	ISO 527-2/50
Flexural Modulus ²	2260	MPa	ISO 178
Flexural Stress	63.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ISO 306/B50
Thermal Conductivity	0.20	W/m/K	ISO 8302
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Dielectric Strength (3.20 mm, in Oil)	20	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

1.50 mm	V-0	UL 94
2.80 mm	5VA	UL 94
Oxygen Index	26	% ISO 4589-2
Injection	Nominal Value	Unit
Drying Temperature	80.0 - 85.0	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.10	%
Hopper Temperature	60.0 - 80.0	°C
Rear Temperature	180 - 210	°C
Middle Temperature	195 - 225	°C
Front Temperature	195 - 225	°C
Nozzle Temperature	190 - 220	°C
Processing (Melt) Temp	200 - 230	°C
Mold Temperature	40.0 - 80.0	°C
NOTE		
1.	Tensile Bar	
2.	2.0 mm/min	
3.	80*10*4	

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