

# Polyflam RABS 90000 UV5 CA GRY69780

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

## General Information

### Product Description

Flame retardant ABS grade without PBDE, higher thermal stability and permanent antistatic properties

### General

Additive	• Flame Retardant
Features	• Flame Retardant • Good Thermal Stability • Good Processability • Non-Blooming
Processing Method	• Injection Molding

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	44	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	225000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	4350	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.2	ft·lb/in <sup>2</sup>	
73°F	3.5	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	25	ft·lb/in <sup>2</sup>	
73°F	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	178	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	154	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	174	°F	ISO 306/B50
--	214	°F	ISO 306/A50
Ball Pressure Test (194°F)	Pass		IEC 60695-10-2
RTI Elec (0.12 in)	140	°F	UL 746B
RTI Imp (0.12 in)	140	°F	UL 746B
RTI Str (0.12 in)	140	°F	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.7E+10	ohms	IEC 60093
Comparative Tracking Index	325	V	IEC 60112

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<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Burning Rate <sup>2</sup>			
0.0787 in	0.0	in/min	ISO 3795
0.0787 in	0.0	in/min	FMVSS 302
Flame Rating (0.12 in)	V-1		UL 94
Flammability Classification (0.12 in)	V-1		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in	1200	°F	
0.12 in	1200	°F	
Oxygen Index	27	%	ISO 4589-2

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	428 to 464	°F
Mold Temperature	104 to 140	°F
Injection Rate	Slow-Moderate	
Back Pressure	725 to 1450	psi
Screw Speed	< 709	in/min