

POLYFLAM™ RABS 90000

Flame retardant ABS- standard grade

Properties	Standard	Parameters		Unit
Burning				
Burn Rate	FMVSS 302/ ISO 3795			mm/min
Incandescent Wire Test	IEC 695	2 mm	960	°C
Limiting Oxygen Index (LOI)	ISO 4589		28	
UL 94 (E86615)	UL 94/ISO 1210	1.5	V-0	
Electrical				
Comparative Tracking Index (CTI)	IEC 112	Solution A	475	
General				
Density	ISO 1183/1		1.18	g/cm³
Melt Volume Rate	ISO 1133	220 °C / 10 kg	28	cm³/10 minutes
Mechanical				
Ball Indentation Hardness	ISO 2039/1	H358/30		MPa
Charpy - Impact Strength	ISO 179/1eU	23°C	80	kJ/m²
Charpy - Impact Strength	ISO 179/1eU	-30°C	50	kJ/m²
Charpy- Notched Impact Strength	ISO 179/1eA	23°C	10	kJ/m²
Charpy- Notched Impact Strength	ISO 179/1eA	-30°C	5	kJ/m²
Tensile Modulus	ISO 527	1 mm/min	2300	MPa
Tensile Strain @ Break	ISO 527	50 mm/min	2.2	%
Tensile Stress @ Break	ISO 527	50 mm/min	40	MPa
Processing				
Melt Temperature		220 - 240 °C		
Mold Temperature		40 - 60 °C		
Predrying		3-4h / 80°C		
Thermal				
Heat Deflection Temperature	ISO 75	Af (1.80 Mpa)	87	°C
Heat Deflection Temperature	ISO 75	Bf (0.45 Mpa)	92	°C
VICAT Softening Temperature	ISO 306	A50 (10N)	100	°C
VICAT Softening Temperature	ISO 306	B50 (50N)	90	°C

Reported values pertain only to natural resins: pigmenting may vary properties. Pellet cut, size, color, and other properties may vary depending on the manufacturing location.

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