

POLYblend PC/ABS 83EFR

Polycarbonate + ABS

Polykemi AB

Message:

PC/ABS-blend Flame retardant, Halogen free

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.50 to 0.70	%	
Flow	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	70.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.0	%	ISO 527-2
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m ²	
23°C	20	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹			
0.45 MPa, Unannealed	116	°C	ISO 75-2/B
0.45 MPa, Annealed	116	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
1.8 MPa, Annealed	108	°C	ISO 75-2/A
Vicat Softening Temperature			
--	129	°C	ISO 306/A50
--	123	°C	ISO 306/B50
Ball Pressure Test (105°C)	Pass		IEC 60695-10-2
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.60 mm)	V-0	UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	°C IEC 60695-2-13
NOTE		
1.	120°C/hr	

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