

LEXAN™ HFR1723 resin

Polycarbonate
SABIC Innovative Plastics

Message:

High flow, UV stabilized polycarbonate resin with mold release. Available in limited transparent tints, limited package types, and must meet minimum order quantity requirements.

General Information			
UL YellowCard	E121562-220946		
Additive	Mold Release		
	UV Stabilizer		
Features	Good UV Resistance		
	High Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	62.0	MPa	
Break	65.0	MPa	
Tensile Elongation ² (Break)	110	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	2300	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	93.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Instrumented Dart Impact (23°C, Energy at Peak Load)	54.0	J	ASTM D3763
Tensile Impact Strength ⁵	378	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	126	°C	ASTM D648
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.20 mm)	V-2		UL 94
Optical	Nominal Value	Unit	Test Method

Transmittance (2540 μm)	88.0	%	ASTM D1003
Haze (2540 μm)	1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	249 to 271	°C	
Middle Temperature	260 to 282	°C	
Front Temperature	271 to 293	°C	
Nozzle Temperature	266 to 288	°C	
Processing (Melt) Temp	271 to 293	°C	
Mold Temperature	71.1 to 93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	

NOTE

1. Type I, 50 mm/min
2. Type I, 50 mm/min
3. 1.3 mm/min
4. 1.3 mm/min
5. Type S

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