Plexiglas® Heatstop 8N black

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

Product Profile: PLEXIGLAS® Heatstop 8N black is an amorphous thermoplastic molding compound (PMMA). Typical properties of PLEXIGLAS® molding compounds are: good flow high mechanical strength, surface hardness and abrasion resistance very good weather resistance Special properties of PLEXIGLAS® Heatstop 8N black are: heat-reflection (IR) high total solar reflection (TSR), reflects 21% of the solar energy reduces the heat build-up of plastic parts, thus increases the dimension stability. Application: PLEXIGLAS® Heatstop 8N black is suitable for injection molding of technical components, as well as for extrusion/coextrusion. Owing to its superior brilliance, high-gloss (Class A) black surfaces can be obtained. Examples:

black automotive add-on parts like spoiler, pillar and roof trims, black automotive parts like roof modules.

General Information			
Features	Good Abrasion Resistance		
	Good Flow		
	Good Weather Resistance		
	High Gloss		
	High Hardness		
	High Strength		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Exterior Trim		
Appearance	Black		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8			
kg)	3.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1

Tensile Stress (Break)	77.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Glass Transition Temperature	117	°C	ISO 11357-2
Vicat Softening Temperature	108	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	8.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	НВ		UL 94
Fire Rating	B2		DIN 4102
Injection	Nominal Value	Unit	
Drying Temperature	< 98.0	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	60.0 to 90.0	°C	

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