

PULSE™ 6000 BG

PC/ABS Engineering Resin

Trinseo

Message:

PULSE 6000 BG is a PC/ABS resin offering an interesting combination of heat ageing characteristics, low temperature impact performance and high melt strength. Its low MFR enables manufacturing of complex blow molding parts.

Typical applications for this product are Blow Molded Spoilers, knee bolsters and Seat Backs.

General Information			
Features	Good Melt Strength Low Temperature Impact Resistance		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.53	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	2160	MPa	ASTM D638
--	2280	MPa	ISO 527-2
Tensile Strength			
Yield	51.0	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2
Break	54.5	MPa	ASTM D638
Break	53.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.0	%	ASTM D638, ISO 527-2
Break	> 80	%	
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-40°C	50	kJ/m ²	ISO 179
23°C	61	kJ/m ²	
Notched Izod Impact			
-40°C	640	J/m	ASTM D256
23°C	750	J/m	ASTM D256
-40°C	61	kJ/m ²	ISO 180/4A

23°C	69	kJ/m ²	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	111	°C	ASTM D648
1.8 MPa, Unannealed	110	°C	ISO 75-2/A
Vicat Softening Temperature			
--	144	°C	ISO 306/A120
--	130	°C	ISO 306/B50
CLTE - Flow (-40 to 82°C)	7.4E-5	cm/cm/°C	ASTM D696

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