PULSE™ 6000 BG
PC/ABS Engineering Resin

Overview

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.

Automotive Specifications

- VOLKSWAGEN TL 522 31-A

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.13	g/cm³	1.13	g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	6.0	g/10 min	6.0	g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	0.40 to 0.70	%	ASTM D955
Water Absorption (24 hr, 73°F (23°C))	0.53	%	0.53	%	ASTM D570
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus					
--	313000	psi	2160	MPa	ASTM D638
--	330000	psi	2280	MPa	ISO 527-2
Tensile Strength					
Yield	7400	psi	51.0	MPa	ASTM D638
Yield	7830	psi	54.0	MPa	ISO 527-2
Break	7900	psi	54.5	MPa	ASTM D638
Break	7690	psi	53.0	MPa	ISO 527-2
Tensile Elongation					ASTM D638 ISO 527-2
Yield	5.0	%	5.0	%	
Break	> 80	%	> 80	%	
Flexural Modulus [1, 2]	348000	psi	2400	MPa	ISO 178
Flexural Stress [1, 2]	9860	psi	68.0	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength					ISO 179
-40°F (-40°C)	24	ft·lb/in²	50	kJ/m²	
73°F (23°C)	29	ft·lb/in²	61	kJ/m²	
Notched Izod Impact					
-40°F (-40°C)	12	ft·lb/in	640	J/m	ASTM D256
73°F (23°C)	14	ft·lb/in	750	J/m	ASTM D256
-40°F (-40°C)	29	ft·lb/in²	61	kJ/m²	ISO 180/4A
73°F (23°C)	33	ft·lb/in²	69	kJ/m²	ISO 180/4A
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					
264 psi (1.8 MPa), Unannealed	232	°F	111	°C	ASTM D648
264 psi (1.8 MPa), Unannealed	230	°F	110	°C	ISO 75-2/A
Vicat Softening Temperature					
--	291	°F	144	°C	ISO 306/A120
--	266	°F	130	°C	ISO 306/B50
CLTE - Flow (-40 to 180°F (-40 to 82°C))	4.1E-5	in/in/°F	7.4E-5	cm/cm/°C	ASTM D696

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] 0.079 in/min (2.0 mm/min)

[2] 3 points

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