

EN-2016 HR BK001**Product Description**

30% glass fiber reinforced, injection-modified PA66.

Features and application fields

High mechanical properties, excellent heat and hydrolysis resistance. Mainly used in the automotive field, such as car water room and so on. The product is a black material and can also be tinted upon request.

Typical performance

Test item	Test condition	Test standard	Unit	Reference
Basic properties				
Proportion	23°C	ISO 1183	g/cm ³	1.36
Water absorption	23°C, 24h	Sim.to ISO 62	%	1.25
Mold shrinkage	60*60*2mm	ISO 294-4	%	
- Parallel direction	23°C,50%RH,24h			0.25-0.45
- Vertical direction	23°C,50%RH,24h			0.95-1.25
Mechanical behavior				
Tensile Strength	2mm/min	ISO 527-1/-2	MPa	195
Tensile modulus	2mm/min	ISO 527-1/-2	MPa	10000
Elongation at break	2mm/min	ISO 527-1/-2	%	3.2
Bending strength	2mm/min	ISO 178	MPa	250
Flexural modulus	2mm/min	ISO 178	MPa	8000
Simply supported beam notched impact strength	23°C	ISO 179/1eA	KJ/m ²	12.8
Simply supported beam unnotched impact strength	23°C	ISO 179/1eU	KJ/m ²	88
Thermal properties				
Heat distortion temperature	80*10*4mm,1.80MPa	ISO 75-1/-2	°C	245
Melting point	DSC,10°C/min/min	ISO 11357-1/3	°C	262
Flame retardant properties				
Flame retardancy	3.2mm	UL94	Class	HB
Glow Wire Burn Index	3.2mm	IEC 60695-2-12	°C	650
Electrical properties				
Volume resistivity	100*3mm	IEC 60093	Ω·m	1.0E+13
Surface resistivity	100*3mm	IEC 60093	Ω	1.0E+14
Compared to Tracking Index	Solution A,3mm	IEC 60112	V	550
Recommended processing conditions				
Drying temperature	Hot air drying		°C	110-140
Drying time			h	6-8
Melt temperature			°C	275-300
Mold temperature			°C	60-120
Injection pressure			MPa	60-100
Processing moisture requirements			%	≤0.1

Note: This typical physical property is not a sales specification