

KumhoSunny PC/PET HTC6060

Polycarbonate + PET

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HTC6060 is a PC/PET resin, offering high heat resistance, high impact and excellent chemical resistance. HTC6060 is recommended for automobile front grille, electrician products, etc

General Information			
Features	Good Chemical Resistance		
	Good Impact Resistance		
	High Heat Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Under the Hood		
	Electrical Parts		
	Electrical/Electronic Applications		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
265°C/5.0 kg	30	g/10 min	ASTM D1238
260°C/5.0 kg	12	g/10 min	ISO 1133
Molding Shrinkage	0.60 to 0.90	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	58.0	MPa	ASTM D638
--	56.0	MPa	ISO 527-2/50
Flexural Modulus			
--	2100	MPa	ASTM D790
-- ¹	2200	MPa	ISO 178
Flexural Strength			
--	70.0	MPa	ASTM D790
-- ²	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	65	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Notched Izod Impact			
3.20 mm	750	J/m	ASTM D256
23°C	65	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
Vicat Softening Temperature			
--	137	°C	ASTM D1525 ⁴
--	130	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	230 to 250	°C	
Middle Temperature	250 to 270	°C	
Front Temperature	260 to 280	°C	
Nozzle Temperature	260 to 280	°C	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	60.0 to 90.0	°C	
Back Pressure	0.300 to 1.00	MPa	
Screw Speed	30 to 70	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	120°C/h		
4.	Rate B (120°C/h)		

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