

SABIC Innovative Plastics SABIC PPCOMPOUND 5521 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® PPcompound 5521 is a mineral filled, impact modified polypropylene TPO. This material combines good flow with exterior automotive weathering stability. The general purpose black color product is offered without weathering stability for good paintability. The weatherable product was originally designed for unpainted automotive exterior bumper cap and step pad applications where high flexibility is required. The IMDS is 163257209.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-5521-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ASTM D792
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 230 °C	19 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	50 mm/min; ISO 527
Elongation at Break	160 %	160 %	50 mm/min; ISO 527
Elongation at Yield	5.5 %	5.5 %	50 mm/min; ISO 527
Tensile Modulus	0.850 GPa	123 ksi	1 mm/min; ISO 527
Flexural Modulus	0.890 GPa	129 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched (ISO)	49.0 kJ/m ²	23.3 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	9.00 kJ/m ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 180/1A
	11.0 kJ/m ² @Temperature 0.000 °C	5.23 ft-lb/in ² @Temperature 32.0 °F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	5.90 J/cm ²	28.1 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 179/1eA
	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
Dart Drop, Total Energy	17.0 J	12.5 ft-lb	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	23.0 J	17.0 ft-lb	Instrumented Impact Energy @ peak, - 30Â°C @ 2.2 m/s; ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	129 Âµm/m-Â°C	71.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -30.0 - 100 Â°C	@Temperature -22.0 - 212 Â°F	
CTE, linear, Transverse to Flow	148 Âµm/m-Â°C	82.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -30.0 - 100 Â°C	@Temperature -22.0 - 212 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	86.0 Â°C	187 Â°F	80*10*4mm, Cut; ISO 75-1&2
Deflection Temperature at 1.8 MPa (264 psi)	51.0 Â°C	124 Â°F	80*10*4mm, Cut; ISO 75-1&2
Vicat Softening Point	136 Â°C	277 Â°F	10N, 50Â°C/hr; ISO 306

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