

SABIC® PPCOMPOUND 7727

PP COMPOUND MINERAL FILLED IMPACT MODIFIED
REGION AMERICAS

DESCRIPTION

SABIC® PPcompound 7727 is a mineral filled, impact modified polypropylene TPO. This material combines impact resistance, heat stability, and is used in injection molded applications.

IMDS ID: 209708556

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	25	MPa	ISO 527
Tensile Stress, break, 50 mm/min, 1A	18	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	4.6	%	ISO 527
Tensile Strain, break, 50 mm/min	26.7	%	ISO 527
Tensile Modulus, 1 mm/min	1960	MPa	ISO 527
Flexural Modulus, 2 mm/min, 64mm span	2050	MPa	ISO 178
IMPACT			
Instrumented Impact Energy @ peak, 23°C @ 6.6 m/s	21	J	ASTM D3763
Charpy Impact, notched, 23°C, 80°10°4mm, Cut	4	kJ/m²	ISO 179/1eA
THERMAL			
CLTE, -30C to 100°C, flow	56	µm/mK	ISO 11359-2
CLTE, -30C to 100°C, xflow	116	µm/mK	ISO 11359-2
HDT 0.45 MPa, 80°10°4mm, Cut	114	°C	ISO 75-1&2
HDT 1.8 MPa, 80°10°4mm, Cut	62	°C	ISO 75-1&2
PHYSICAL			
Specific Gravity	1	-	ASTM D792
Density	0.99	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	23	g/10 min	ISO 1133
INJECTION MOLDING			
Drying Temperature	80 – 100	°C	
Drying Time	2 – 4	Hrs	
Melt Temperature	210 – 270	°C	
Nozzle Temperature	210 – 270	°C	
Front - Zone 3 Temperature	210 – 270	°C	
Middle - Zone 2 Temperature	200 – 250	°C	
Rear - Zone 1 Temperature	190 – 230	°C	
Mold Temperature	15 – 60	°C	
Back Pressure	1 – 1.5	MPa	

