

SABIC® PPcompound 8650U

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 8650U a development grade, elastomer-modified mineral filled Polypropylene for automotive exterior applications. This material combines excellent stiffness and high impact with low density. The combination makes the material very suitable for thin wall bumper applications. This grade is UV stabilized and can be used for unpainted applications. This grade will also be available in an open concept (8650 MB1 & 8650 MB2) and for painted applications (8650).

SABIC® PPcompound 8650U is a designated automotive grade.

General Information			
Filler / Reinforcement	Mineral filler, 11% filler by weight		
Additive	Impact modifier		
	UV stabilizer		
Features	UV Stabilized		
	Impact modification		
	Low density		
	Rigidity, high		
	Impact resistance, high		
Uses	Car anti-collision bar		
	Application in Automobile Field		
	Automotive exterior parts		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage (24 hours, 3.20mm)	0.70 - 0.80	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1500	MPa	ISO 527-2/1B
Tensile Stress			ISO 527-2/1A
Yield, injection molding	18.0	MPa	ISO 527-2/1A
Fracture, injection molding	15.0	MPa	ISO 527-2/1A
Tensile Strain (Break, Injection Molded)	60	%	ISO 527-2/1A
Flexural Modulus (Injection Molded)	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/4A
-20°C, injection molding	8.0	kJ/m ²	ISO 180/4A

0°C, injection molding	15	kJ/m ²	ISO 180/4A
23°C, injection molding	No Break		ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (-30 to 100°C)	7.0E-5	cm/cm/°C	ASTM D696

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Recommended distributors for this material

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