SABIC® PPcompound 37T1020

PP | Saudi Basic Industries Corporation (SABIC)

Product Texts

SABIC® PPcompound 37T1020 is a high flow copolymer with 20% talc, offering an excellent balance between stiffness and impact resistance. It has been specially developed for automotive interior parts such as column cladding and door panels. SABIC® PPcompound 37T1020 is a designated automotive grade. IMDS ID: 16161338

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**13**	g/10min	ISO 1133
Temperature	**230**	°C	-
Load	**2.16**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2100**	MPa	ISO 527
Yield stress	**28**	MPa	ISO 527
Yield strain	**3.5**	%	ISO 527
Stress at break	**25**	MPa	ISO 527
Strain at break	**45**	%	ISO 527
Flexural modulus, 23°C	**2650**	MPa	ISO 178
Charpy notched impact strength, +23°C	**3**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**1**	kJ/m²	ISO 179/1eA
Izod notched impact strength	**3**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**2450**	MPa	ASTM D 638
Tensile Strength at Yield	**25**	MPa	ASTM D 638
Tensile Strength at Break	**17**	MPa	ASTM D 638
Elongation at Yield	**3.7**	%	ASTM D 638
Elongation at Break	**32.8**	%	ASTM D 638
Flexural Modulus	**2350**	MPa	ASTM D 790
Shore D Hardness	**71**	-	ASTM D 2240

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**69**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**110**	°C	ISO 75-1/-2
Vicat softening temperature, A	**145**	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	**116**	°C	ASTM D 648
DTUL @ 264 psi	**60**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1040**	kg/m³	ISO 1183
Density	**1050**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 100**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**210 - 270**	°C	-
Mold temperature	**15 - 60**	°C	-
Zone 1	**190 - 230**	°C	-
Zone 2	**200 - 250**	°C	-
Zone 3	**210 - 270**	°C	-
Nozzle temperature	**210 - 270**	°C	-
Back pressure	**1 - 1.5**	MPa	-

Characteristics

Features
Copolymer