

Technical Data Sheet

Softell™ TKG 2176N C12507



Polypropylene Compounds

Product Description

Softell™ TKG 2176N C12507 is a 20% glass fiber reinforced PP copolymer with good soft touch haptics, high flowability, high dimensional stability and very high scratch resistance. Due to pigmentation, ash content may vary between 20 -25 %. Material shows low shrinkage and has a very low warpage tendency. This grade is delivered in C12507 color version. This product is also available in other colors, new colors can be developed depending on customer requirements.

This grade is not intended for medical, pharmaceutical, food and drinking water applications.

Application	Instrument Panels; Interior Trims
Market	Automotive
Processing Method	Injection Molding
Attribute	Good Dimensional Stability; Good UV Resistance; High Flow; Scratch Resistant; Soft

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	16	g/10 min	ISO 1133-1
Density, (23 °C)	1.06	g/cm³	ISO 1183-1/A
Mechanical			
Flexural Modulus, (23 °C, Tech. A)	2400	MPa	ISO 178/A1
Tensile Modulus, (23 °C)	2450	MPa	ISO 527-1, -2
Tensile Stress at Yield	31	MPa	ISO 527-1, -2
Tensile Strain at Break, (23 °C)	12	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	38	kJ/m²	ISO 179-1/1eA
(-30 °C)	10	kJ/m²	ISO 179-1/1eA
Thermal			
Vicat Softening Temperature, (A50)	120	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	139	°C	ISO 75B-1, -2