

ParsaFlex 48307-M33

Compounded Polyolefin

Description

ParsaFlex 48307-M33 is a mineral filled, toughened polypropylene with good flow characteristics. It combines good stiffness/ impact balance, good scratch resistance and low odor. The grade also contains antistatic and UV stabilizer additives, and demonstrates high resistance to stress whitening. It has been particularly designed for injection molding of automotive interior parts and trims. The grade is available in color-matched, pellet form.

Characteristics

Material Status: Commercial: Active

Filler/Reinforcement: Mineral Filler , 20% by weight

Appearance: Color-Matched

Form: Pellets

Processing Method: Injection molding

Applications

Automotive applications, interior parts, instrument panels and consoles

Properties

Physical	Value	Unit	Test Method
Density	1.05	g/cm ³	ASTM D792
Molding Shrinkage		%	ASTM D955
Across Flow	0.9 - 1.2		
Flow	0.9 - 1.2		
Melt Flow Rate (MFR) (230°C/2.16 kg)	10 - 12	g/10min	ASTM D1238
Flammability	HB	-	UL 94
Mechanical	Value	Unit	Test Method
Tensile Modulus (50 mm/min)	1750	MPa	ASTM D638
Tensile Stress (50 mm/min)		MPa	ASTM D638
Yield	20		

Break	16		
Tensile Strain (50 mm/min)		%	ASTM D638
Yield	9		
Break	> 35		
Flexural Modulus	1850	MPa	ASTM D790
Flexural Stress @ Yield	NA	MPa	ASTM D790
Flexural Strain @ Yield	NA	%	ASTM D790
Charpy Notched Impact Strength		kJ/m ²	ASTM D6110
@ 23 °C	28		
@ 0 °C	9		
@ -20 °C	4.5		
Charpy Unnotched Impact Strength		kJ/m ²	ASTM D6110
@ 23 °C	No Break		
Izod Notched Impact Strength		NA	ASTM D256
@ 23 °C	26		
@ 0 °C	8		
@ -20 °C	4		
Scratch Resistance (2N)	128	MPa	ASTM G171-03
Hardness (Shore D)	64		ASTM D2240
Thermal	Value	Unit	Test Method
Heat Deflection Temperature		°C	ASTM D648
1.82 MPa, Unannealed	54		
0.455 MPa, Unannealed	100		
Vicat Softening Temperature	NA	°C	ASTM D1525
Processing Conditions			
Drying Temperature	80 °C		
Drying Time	2h		
Barrel Temperature	190 - 230 °C		
Melt Temperature	210 - 240 °C		
Mould Temperature	30 - 50 °C		
Injection Speed	Low to medium		
Hold Pressure	30 - 60 MPa		

Notes:

Typical properties: these are not to be construed as specifications.