ParsaFlex 43107-M33

Compounded Polyolefin

Description

ParsaFlex 43107-M33 is high crystalline polypropylene based blend with good flow characteristics. It combines good stiffness/ impact balance, excellent scratch resistance and high UV resistance. It is a suitable material for injection molding of automotive interior parts, trims, and consoles.

Characteristics

Material Status: Commercial: Active

Filler/Reinforcement: No Filler

Appearance: Color-Matched

Form: Pellets

Processing Method: Injection molding

Applications

Automotive applications, Automotive interior parts

Properties

Physical	Value	Unit	Test Method
Density	0.90	g/cm^3	ASTM D792
Molding Shrinkage		%	ASTM D955
Across Flow	1.3 - 1.5		
Flow	1.3 - 1.5		
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)	1100	MPa	ASTM D638
Tensile Stress (50 mm/min)		MPa	ASTM D638
Yield	20		
Break	NA		

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Tensile Strain (50 mm/min)		%	ASTM D638
Yield	10		
Break	>120		
Flexural Modulus	1200	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	No Break		
@ 0 °C	12		
@ -20 °C	6.5		
Charpy Unnotched Impact Strength		kJ/m^2	ASTM D6110
@ 23 °C	No Break		
Izod Notched Impact Strength		kJ/m^2	ASTM D256
@ 23 °C	No Break		
@ 0 °C	12		
@ -20 °C	6		
Scratch Resistance (2N)	122	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	50		
0.455 MPa, Unannealed	85		
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.