

## ParsaFlex 42107CH

Compounded Polyolefin

### Description

ParsaFlex 42107CH is 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 and trims, especially door panels and consoles. The grade is available in color-matched, pellet form.

### Characteristics

**Material Status:** Commercial: Active

**Filler/Reinforcement:** Mineral Filler , 10% by weight

**Appearance:** Color-Matched

**Form:** Pellets

**Processing Method:** Injection molding

### Applications

Automotive applications, Automotive interior parts.

### Properties

Physical	Value	Unit	Test Method
Density	0.98	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage		%	ASTM D955
Across Flow	1.1 - 1.4		
Flow			
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)	1500	MPa	ASTM D638
Tensile Stress (50 mm/min)		MPa	ASTM D638
Yield	21		
Break	NA		

Tensile Strain (50 mm/min)		%	ASTM D638
Yield	9		
Break	>50		
Flexural Modulus	NA	MPa	ASTM D790
Flexural Stress @ Yield	NA	MPa	ASTM D790
Flexural Strain @ Yield	NA	%	ASTM D790
Charpy Notched Impact Strength		kJ/m <sup>2</sup>	ASTM D6110
@ 23 °C	17		
@ 0 °C	8		
@ -20 °C	4		
Charpy Unnotched Impact Strength		kJ/m <sup>2</sup>	ASTM D6110
@ 23 °C	No Break		
Izod Notched Impact Strength	NA	J/m	ASTM D256
Scratch Resistance (2N)	NA	MPa	ASTM G171-03
Hardness (Shore D, 15 sec, 23°C)	65		ASTM D2240
<b>Thermal</b>	<b>Value</b>	<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature		°C	ASTM D648
1.82 MPa, Unannealed	NA		
0.455 MPa, Unannealed	98		
Vicat Softening Temperature	NA	°C	ASTM D1525

**Notes:**

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