ParsaFlex 31512CHU

Rubber Toughened Polypropylene

Description

ParsaFlex 31512CHU is a high impact modified polypropylene providing high melt flow rate suitable for injection molding of large articles. The product is UV stabilized and fulfills the requirements for exterior car trims.

Characteristics

Material Status: Commercial: Active

Filler/Reinforcement: Mineral Filler , 10% by weight

Appearance: Natural, Color-Matched

Form: Pellets

Processing Method: Injection molding

Applications

Automotive applications, Automotive exterior trims, Automotive bumpers

Properties

Physical	Value	Unit	Test Method
Density	0.98	g/cm^3	ASTM D792
Molding Shrinkage		%	ASTM D955
Across Flow	0.95 - 1.20		
Flow	0.95 - 1.20		
Melt Flow Rate (MFR) (230°C/2.16 kg)	11 - 13	g/10min	ASTM D1238
Flammability	HB	-	UL 94
Mechanical	**Value**	**Unit**	**Test Method**
Tensile Modulus (50 mm/min)	1250	MPa	ASTM D638
Tensile Stress (50 mm/min)		MPa	ASTM D638
Yield	18		
Break	14		

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Tensile Strain (50 mm/min)		%	ASTM D638
Yield	8		
Break	> 100		
Flexural Modulus	1300	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	26		
@ 0 °C	11		
@ -20 °C	7		
Charpy Unnotched Impact Strength		kJ/m^2	ASTM D6110
@ 23 °C	No Break		
Izod Notched Impact Strength		kJ/m^2	ASTM D256
@ 23 °C	23		
@ 0 °C	10		
@ -20 °C	8		
Scratch Resistance (2N)	NA	MPa	ASTM G171-03
Hardness (Shore D)	57		ASTM D2240
Thermal	**Value**	**Unit**	**Test Method**
Heat Deflection Temperature		°C	ASTM D648
1.82 MPa, Unannealed	49		
0.455 MPa, Unannealed	NA		
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.