

Retpol® 7572

Polypropylene

PolyPacific Pty. Ltd.

Message:

EPALEX 7572 is a thermoplastic 25% mineral filled polypropylene compound. It is a low flow extrusion grade developed for extremely high impact strength and dimensional stability whilst maintaining a high level of rigidity.

General Information			
Filler / Reinforcement	Mineral,25% Filler by Weight		
Features	Good Dimensional Stability		
	High Rigidity		
	Low Gloss		
	Ultra High Impact Resistance		
Uses	Profiles		
	Sheet		
Forms	Granules		
Processing Method	Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.60 to 1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.00 mm)	44		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	70		
Shore D, 15 sec, 3.00 mm	61		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	21.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	470	%	ASTM D638
Flexural Modulus (3.00 mm)	2000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, 3.00 mm	570	J/m	
23°C, 3.00 mm	860	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.00 mm)	110	°C	ASTM D648
CLTE - Flow (-30 to 30°C, 3.00 mm)	7.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Suggested Max Regrind	10	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	180 to 240	°C	
Cylinder Zone 2 Temp.	180 to 240	°C	
Cylinder Zone 3 Temp.	180 to 240	°C	
Cylinder Zone 4 Temp.	180 to 240	°C	
Cylinder Zone 5 Temp.	180 to 240	°C	
Melt Temperature	200 to 220	°C	
Die Temperature	200 to 220	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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