

Retpol® 7552

Polypropylene

PolyPacific Pty. Ltd.

Message:

Epalex 7552 is a thermoplastic rubber modified mineral filled polypropylene compound. It is a very high flow injection moulding grade developed for parts with long flow lengths and high impact strength at sub-zero temperatures whilst maintaining good rigidity at high ambient temperatures. The material displays minimal shrinkage and low CLTE.

General Information			
Filler / Reinforcement	Mineral		
Additive	Rubber		
Features	High Flow		
	High Impact Resistance		
	High Rigidity		
	Low CLTE		
	Low Shrinkage		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Automotive Bumper		
	Automotive Exterior Parts		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.60 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.00 mm)	65		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	70		
Shore D, 15 sec, 3.00 mm	60		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	21.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	300	%	ASTM D638
Flexural Modulus (3.00 mm)	2100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.00 mm	200	J/m	

0°C, 3.00 mm	400	J/m	
23°C, 3.00 mm	550	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.00 mm)	108	°C	ASTM D648
CLTE - Flow (-30 to 30°C, 3.00 mm)	5.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Regrind	10	%	
Processing (Melt) Temp	200 to 260	°C	
Mold Temperature	20.0 to 60.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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