

Retpol® 7581/3

Polypropylene

PolyPacific Pty. Ltd.

Message:

EPALEX 7581/3 is a thermoplastic rubber modified polypropylene compound. It is a very low flow and low gloss extrusion grade developed for vacuum forming. It has very good tear strength, with good flexibility and excellent wear resistance.

General Information			
Additive	Rubber		
Features	Good Flexibility		
	Good Tear Strength		
	Good Wear Resistance		
	Low Flow		
	Low Gloss		
Uses	Automotive Applications		
	Profiles		
	Sheet		
Forms	Granules		
Processing Method	Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.70 to 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	47		
Shore D, 15 sec, 3.00 mm	35		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	13.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	500	%	ASTM D638
Flexural Modulus (3.00 mm)	240	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³ (3.00 mm)	82.0	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-20°C, 3.00 mm	No Break		
0°C, 3.00 mm	No Break		
23°C, 3.00 mm	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.00 mm)	42.0	°C	ASTM D648
CLTE - Flow (-30 to 30°C, 3.00 mm)	1.0E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Suggested Max Regrind	10	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	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.	500 mm/min		
2.	500 mm/min		
3.	Die C, 500 mm/min		

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